

FIG. 1

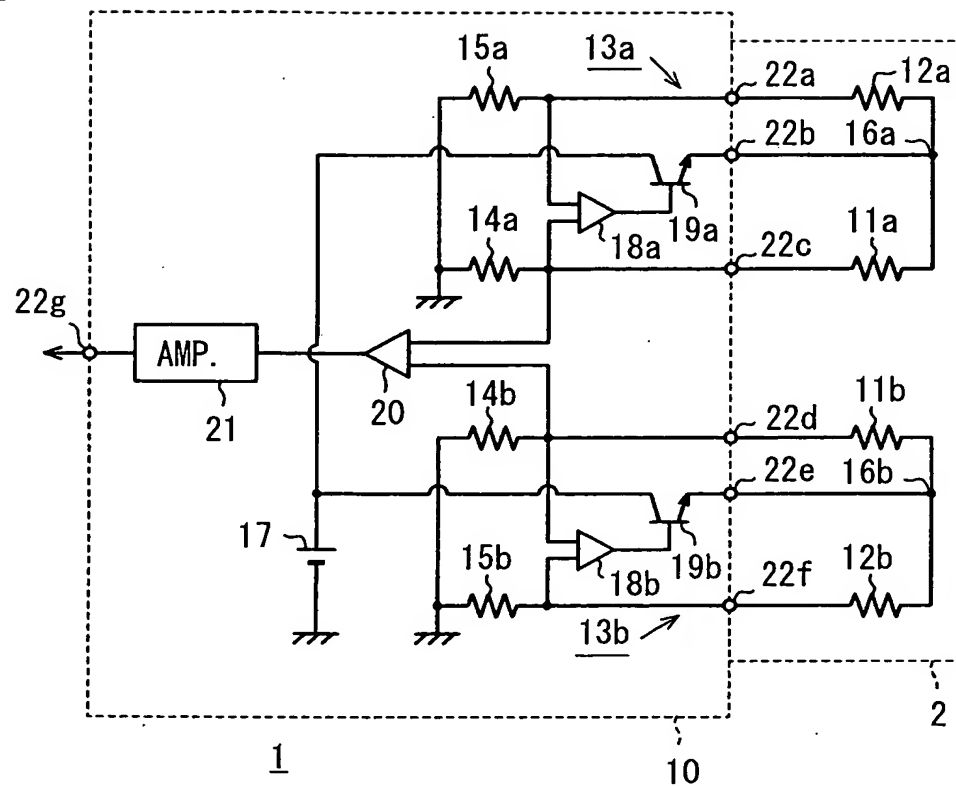
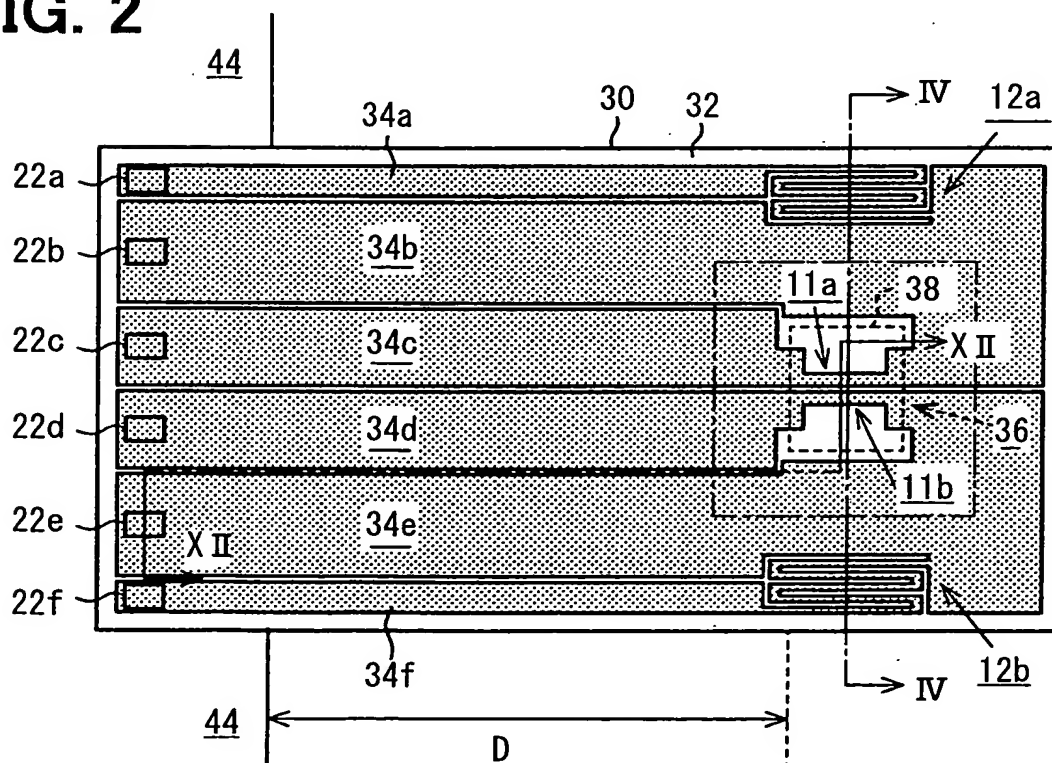
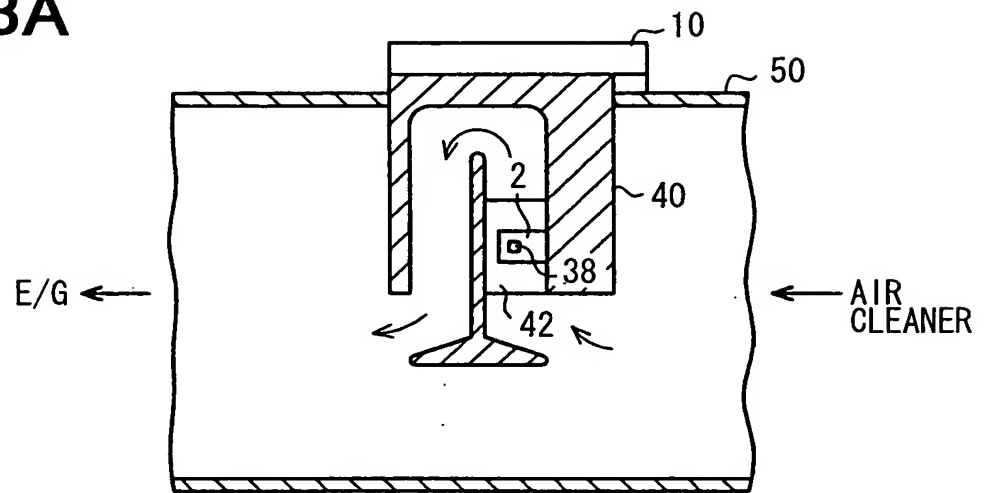


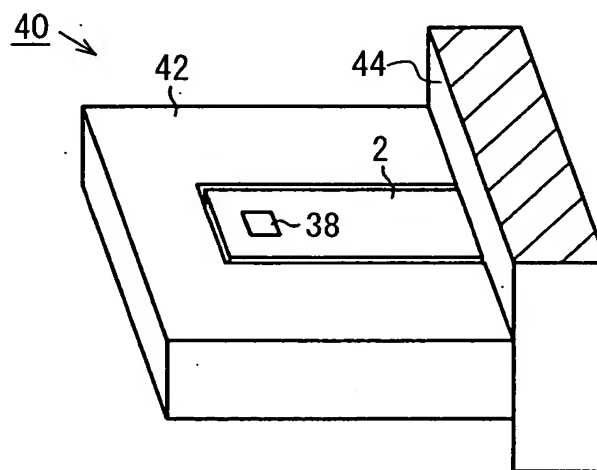
FIG. 2



**FIG. 3A**



**FIG. 3B**



**FIG. 3C**

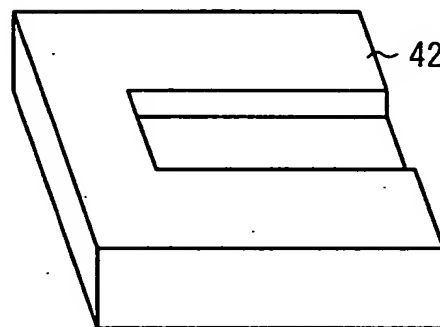


FIG. 4

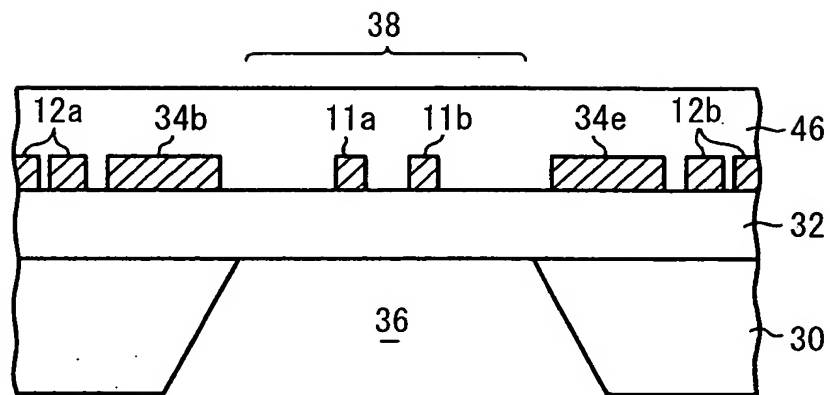


FIG. 5

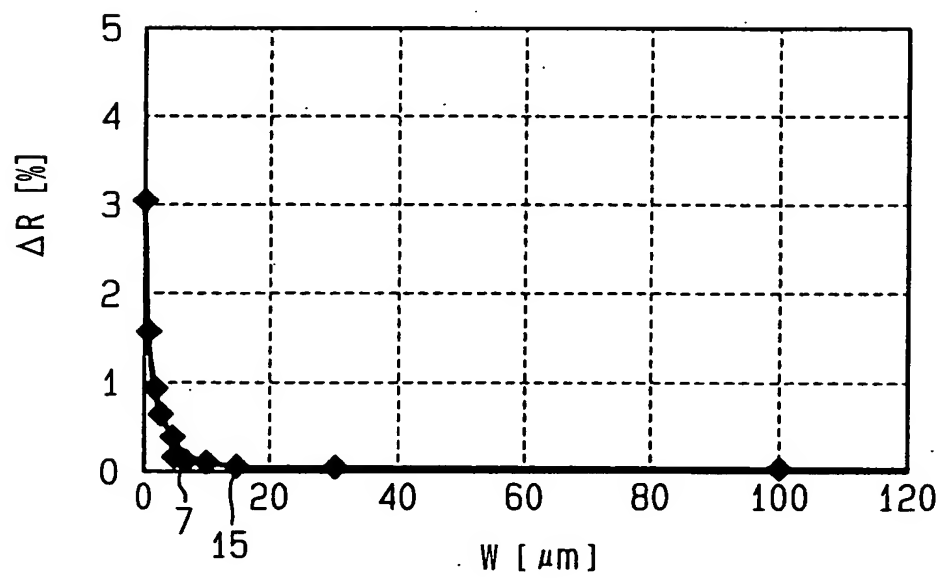


FIG. 6

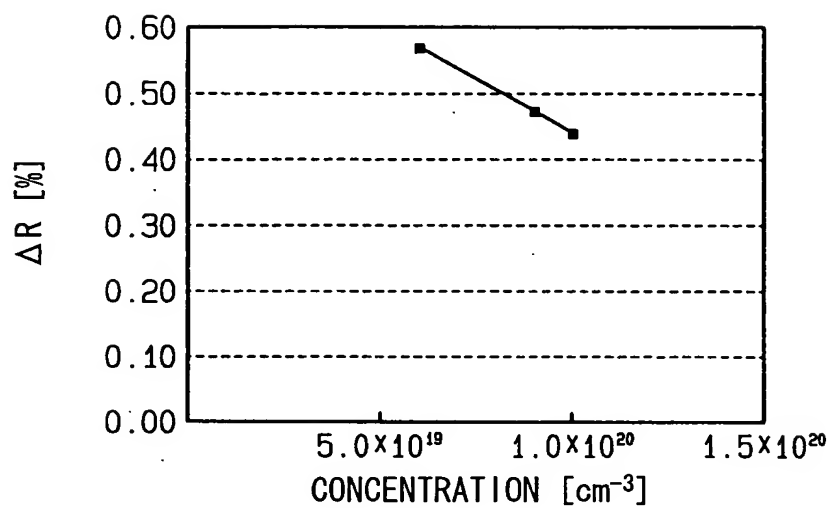


FIG. 7

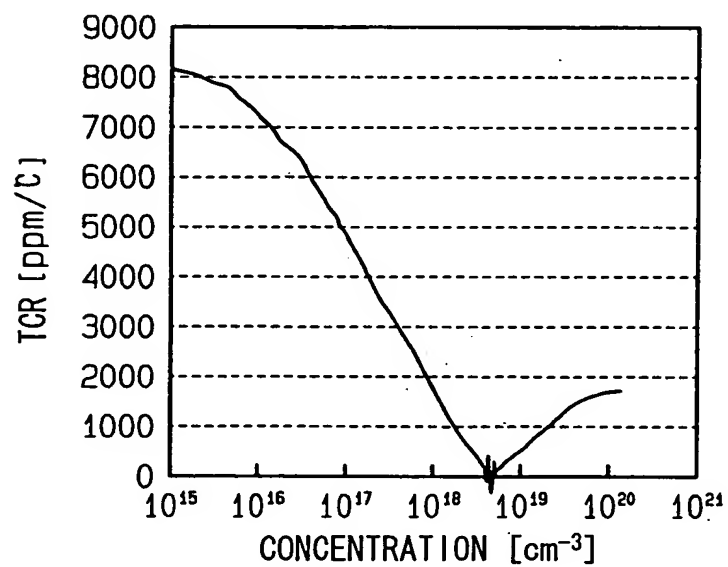
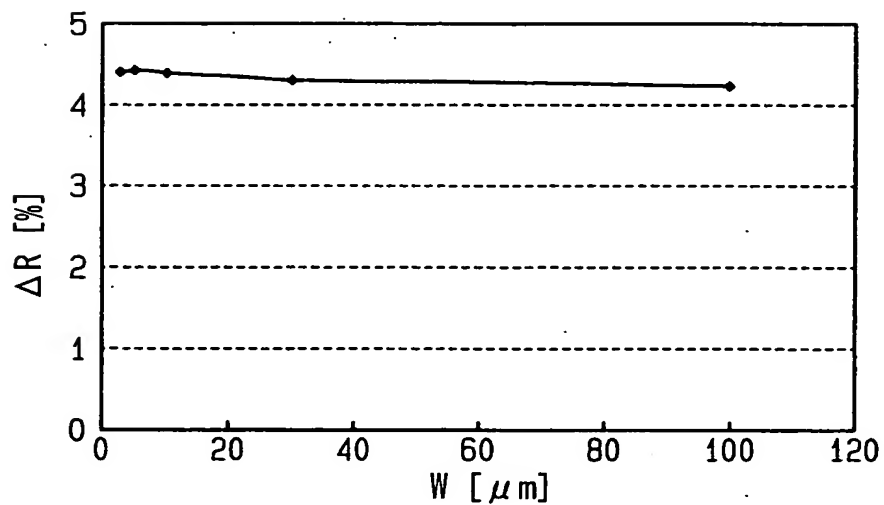
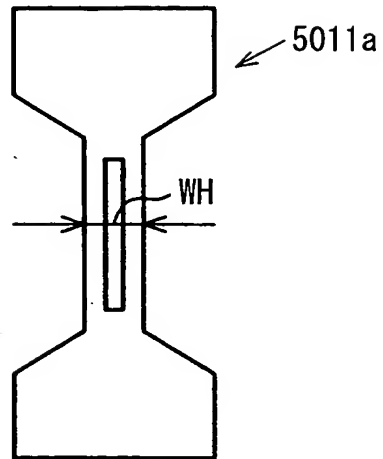


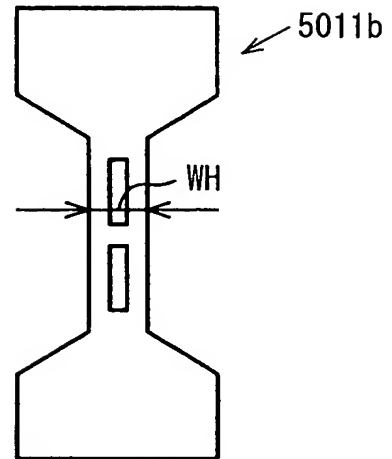
FIG. 8



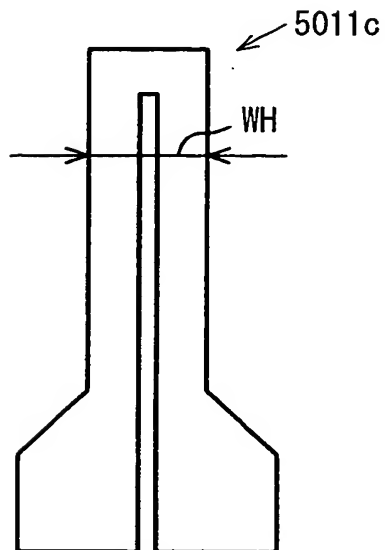
**FIG. 9A**



**FIG. 9B**



**FIG. 9C**



**FIG. 9D**

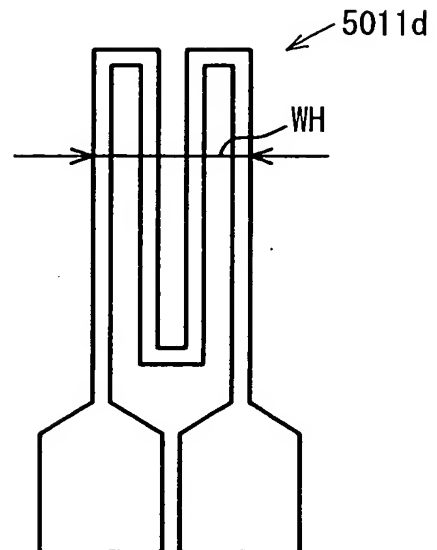


FIG. 10

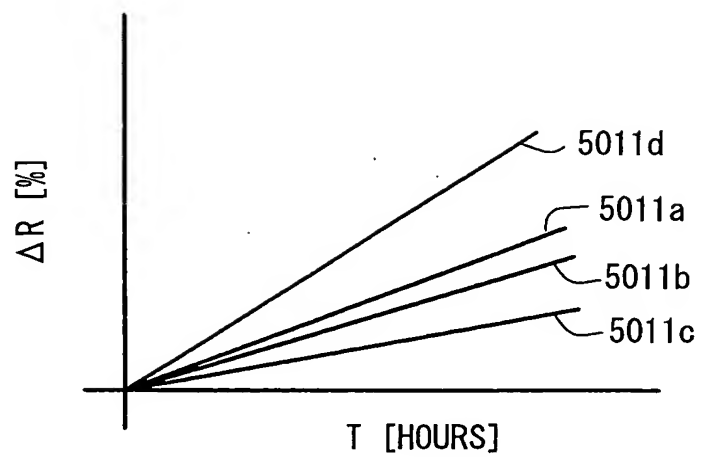
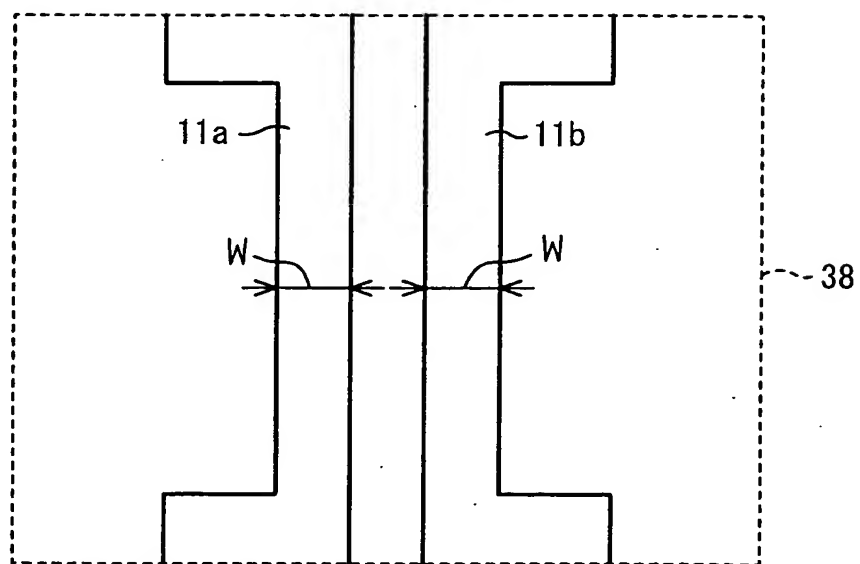
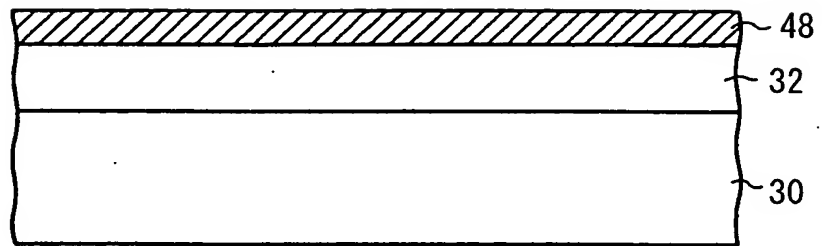


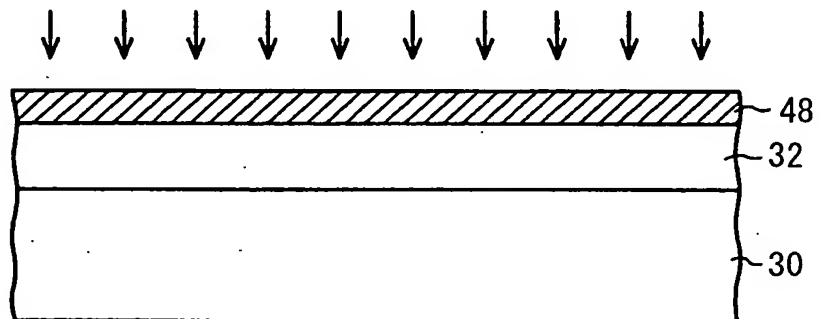
FIG. 11



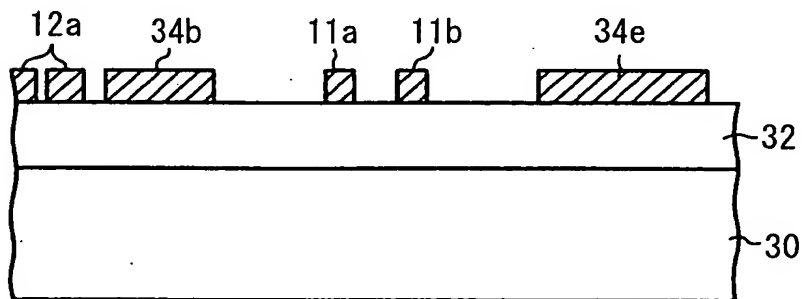
**FIG. 12A**



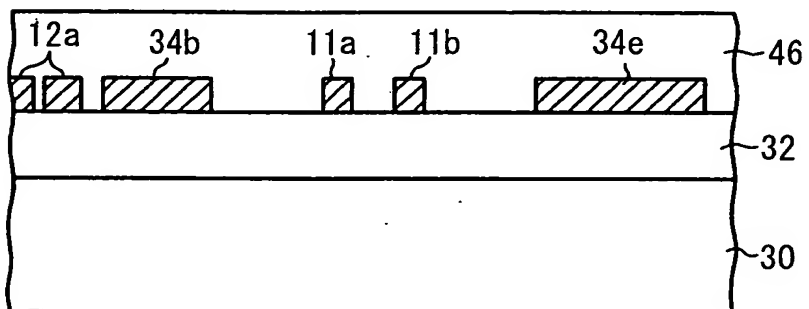
**FIG. 12B**



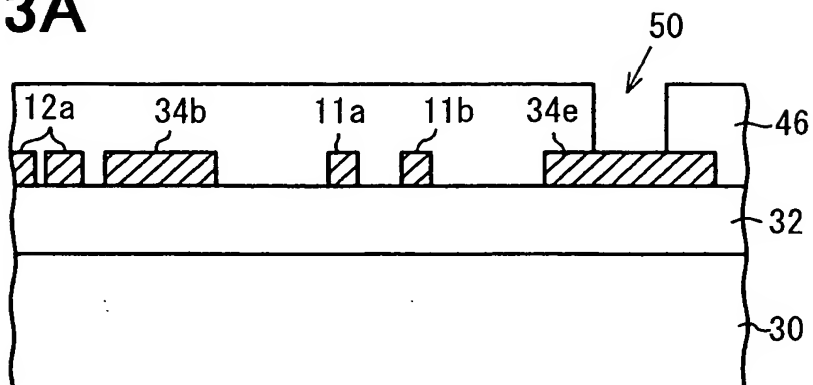
**FIG. 12C**



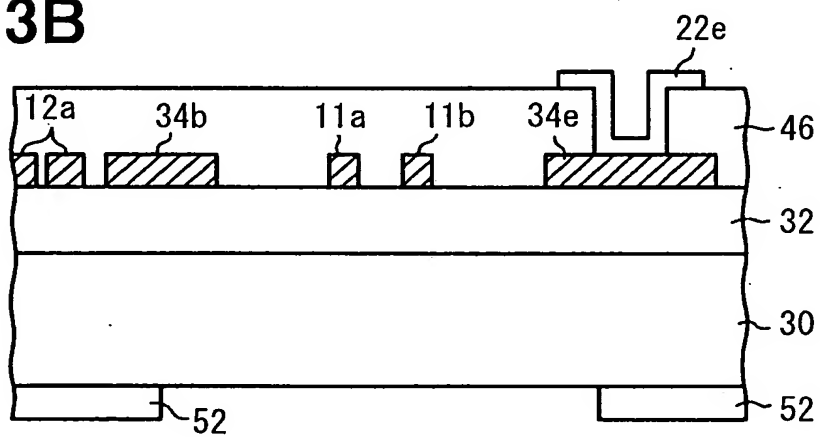
**FIG. 12D**



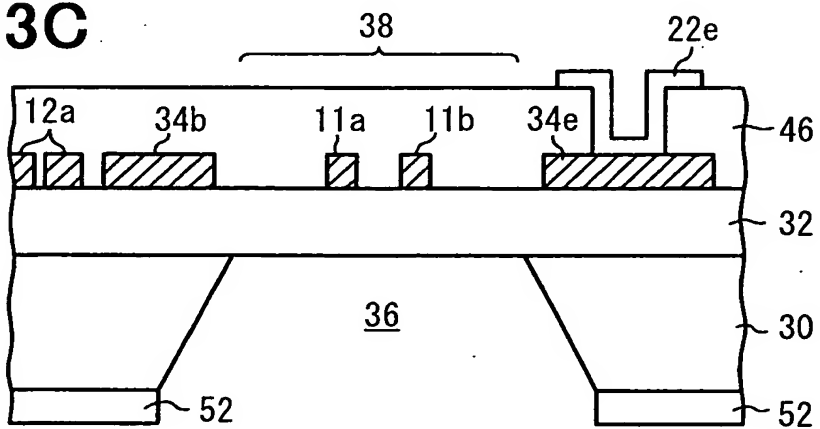
**FIG. 13A**



**FIG. 13B**

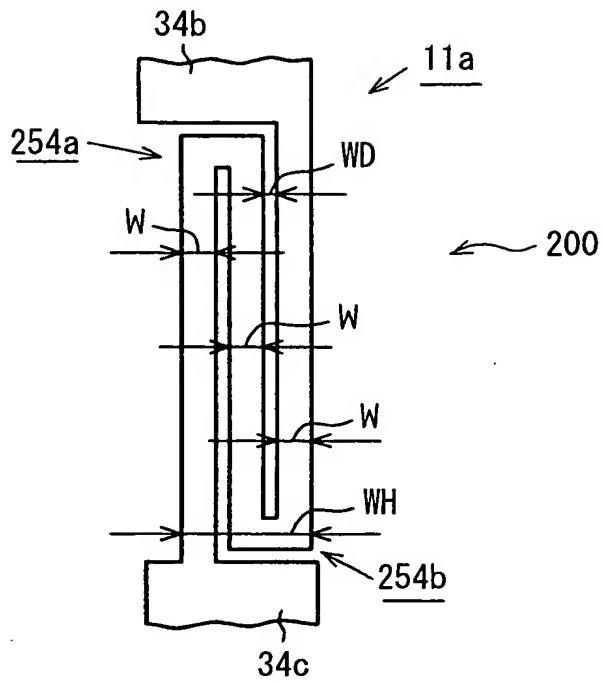


**FIG. 13C**

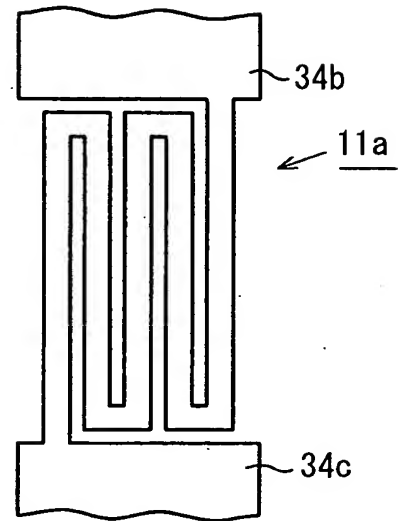




**FIG. 14**



**FIG. 15**



**FIG. 16**

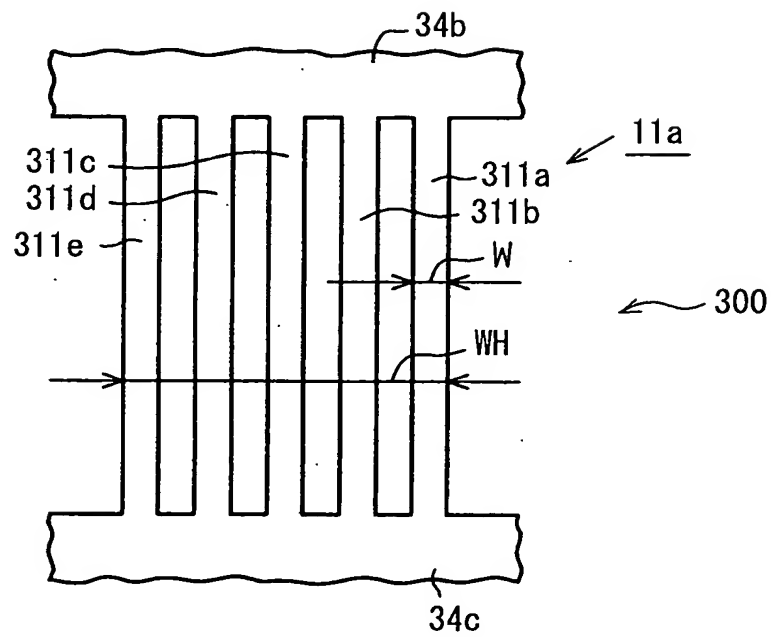


FIG. 17

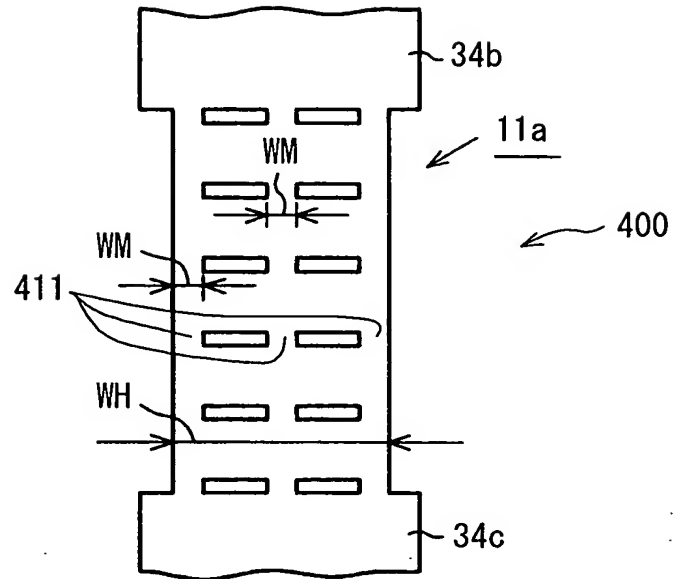
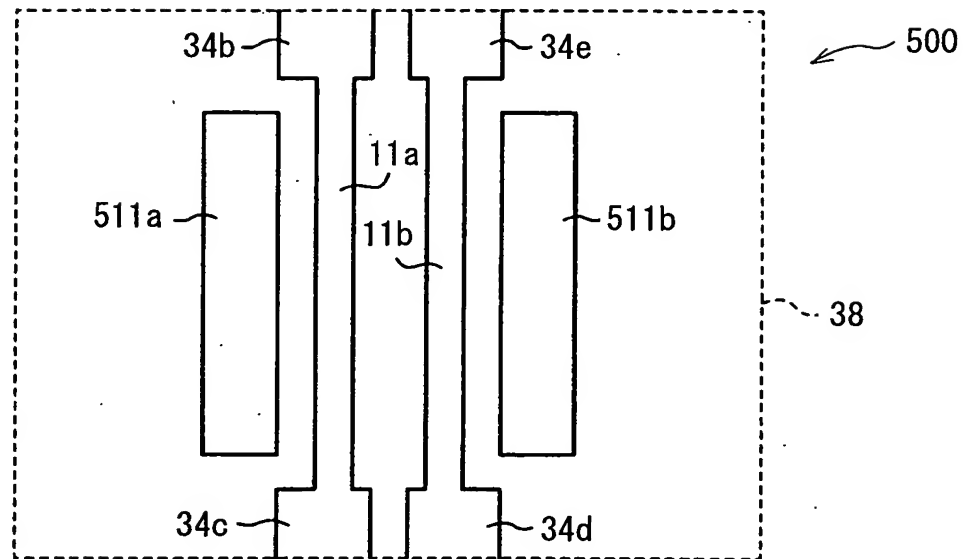


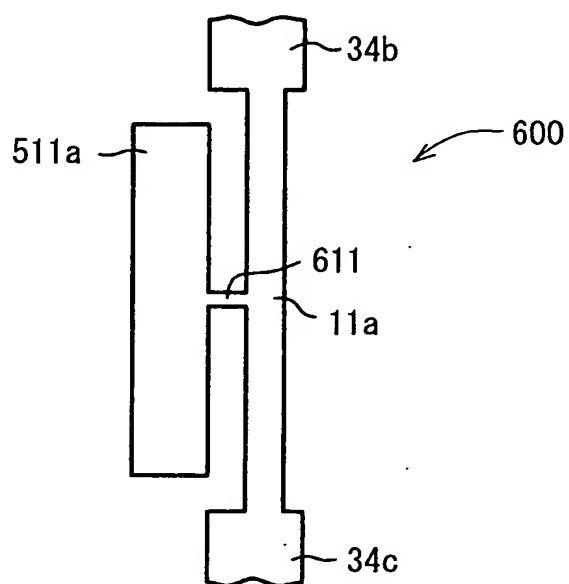
FIG. 18



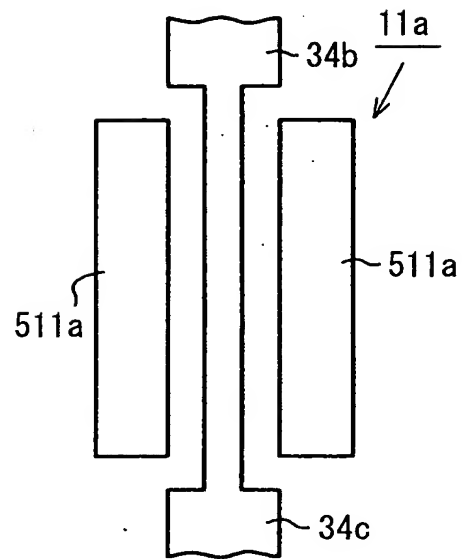
**FIG. 19**

MATERIAL	$K$ [W/(m·k)]	$\rho$ [ $\Omega \cdot m$ ]	$K\rho$ [W· $\Omega$ /k]
Al	236	$5.50 \times 10^{-8}$	$1.30 \times 10^{-5}$
W	177	$4.90 \times 10^{-8}$	$8.67 \times 10^{-6}$
Pt	72	$9.81 \times 10^{-8}$	$7.06 \times 10^{-6}$
Cu	403	$1.55 \times 10^{-8}$	$6.25 \times 10^{-6}$
Si	168	$1.00 \times 10^{-5}$	$1.68 \times 10^{-3}$

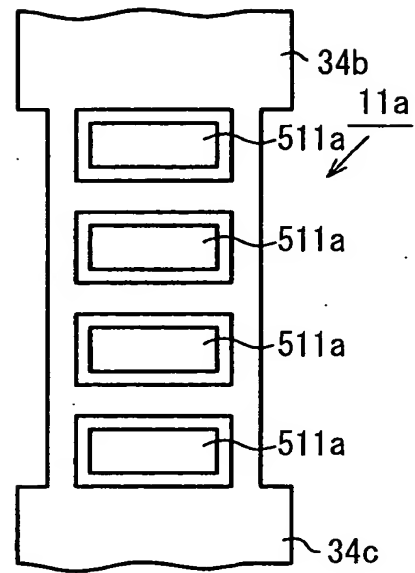
**FIG. 21**



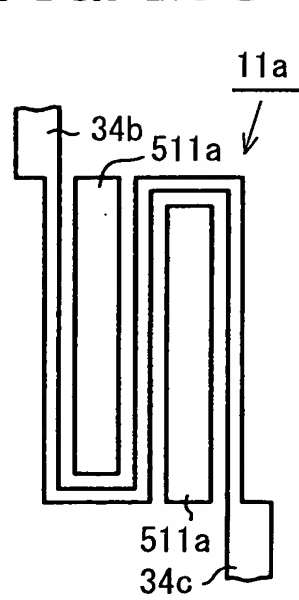
**FIG. 20A**



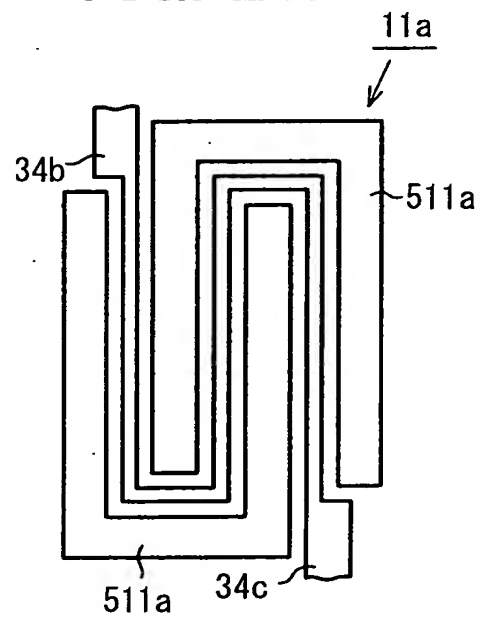
**FIG. 20B**



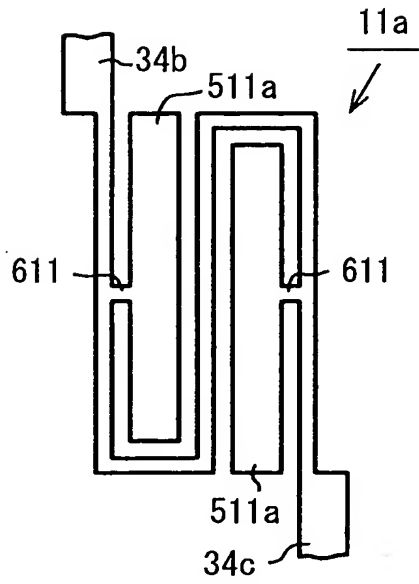
**FIG. 20C**



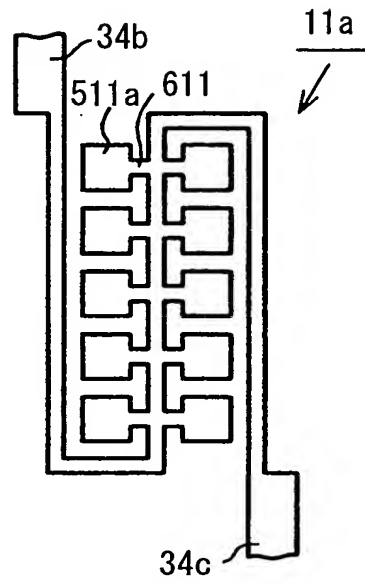
**FIG. 20D**



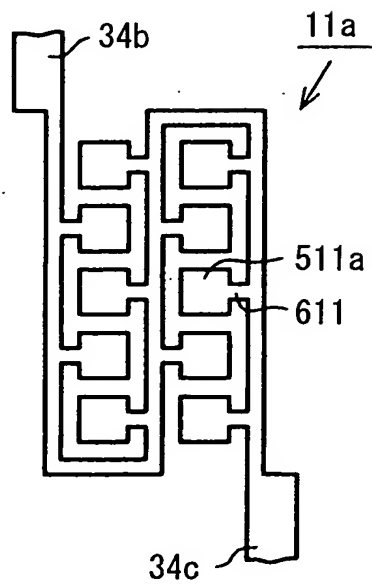
**FIG. 22A**



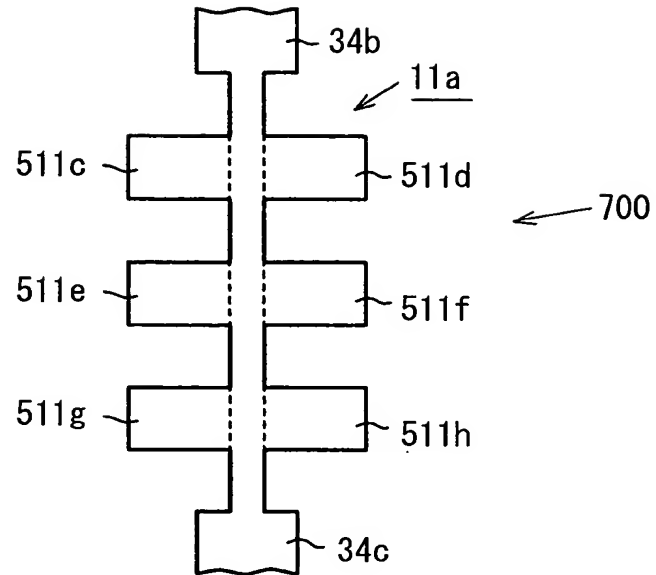
**FIG. 22B**



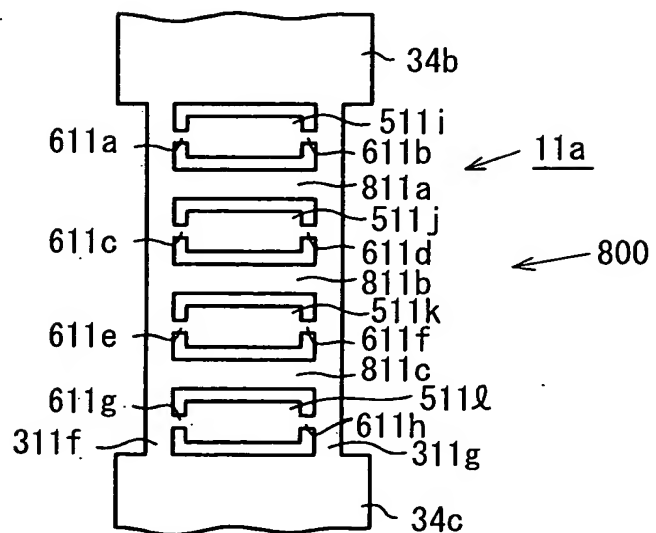
**FIG. 22C**



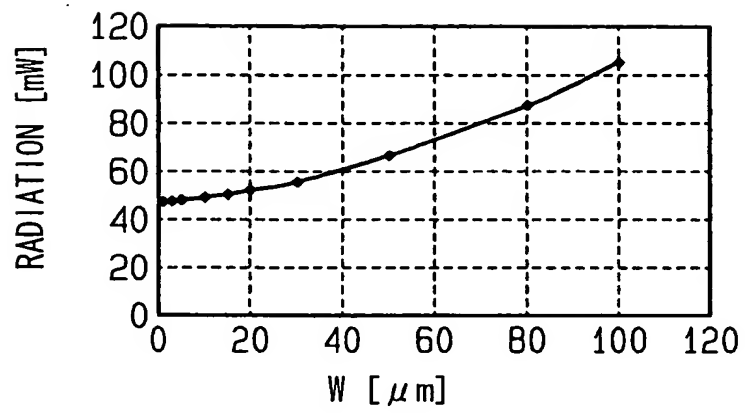
**FIG. 23**



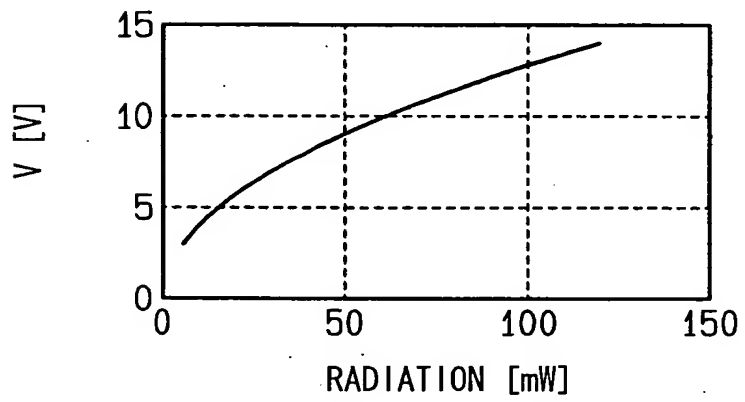
**FIG. 24**



**FIG. 25**



**FIG. 26**



**FIG. 27**

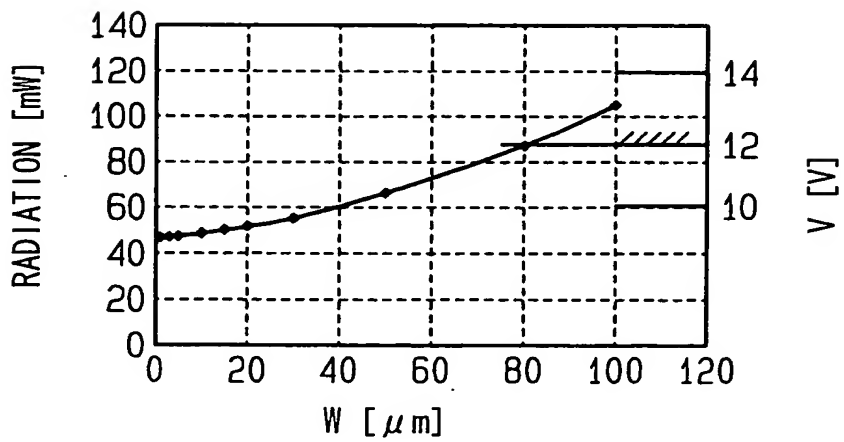
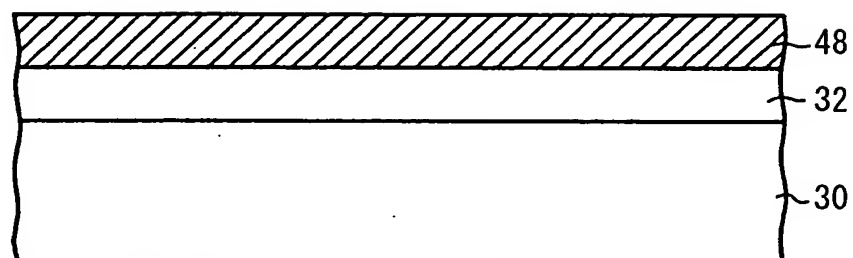


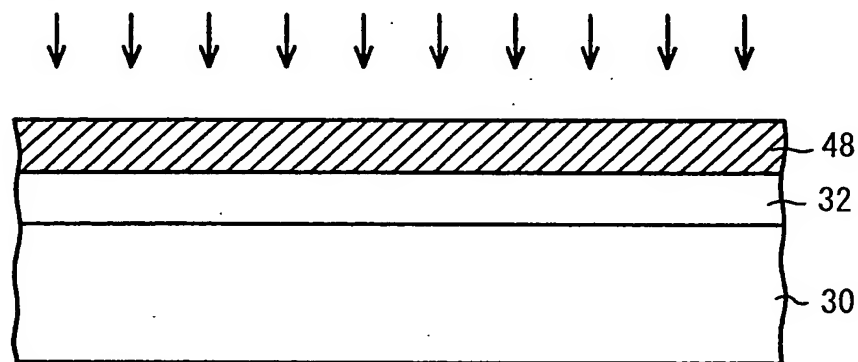
FIG. 10 is a plan view of a semiconductor device. It shows a series of horizontal strips labeled 22a through 22f. Each strip contains a small rectangular feature 22a-22f. The strips are separated by regions 34a through 34f. A central region 38 contains two cross-shaped features 11a and 11b. The entire structure is bounded by regions 12a and 12b. Dimensions D and XXIX are indicated.



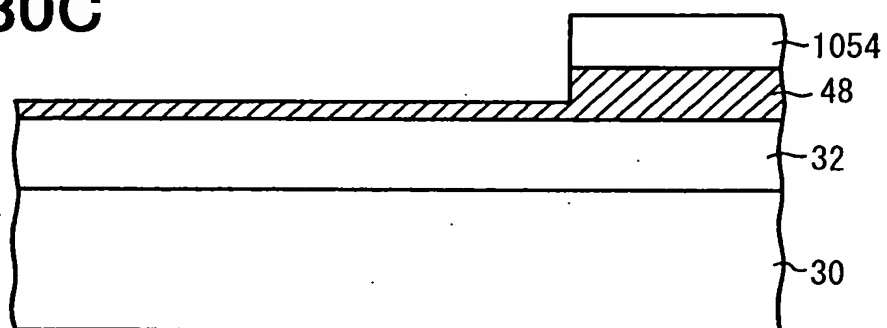
**FIG. 30A**



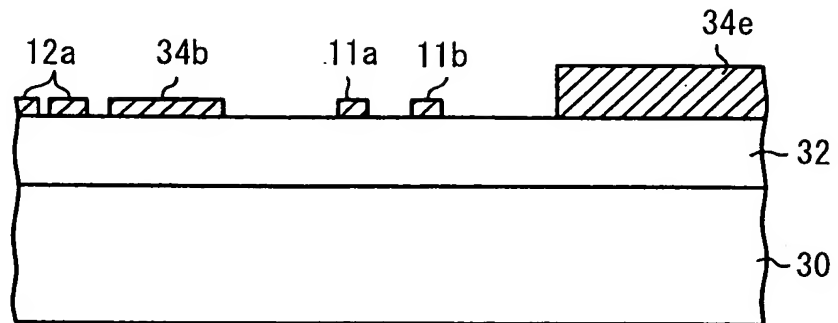
**FIG. 30B**



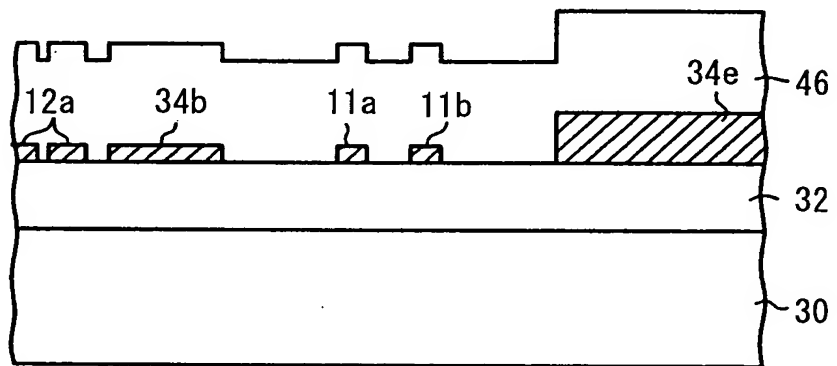
**FIG. 30C**



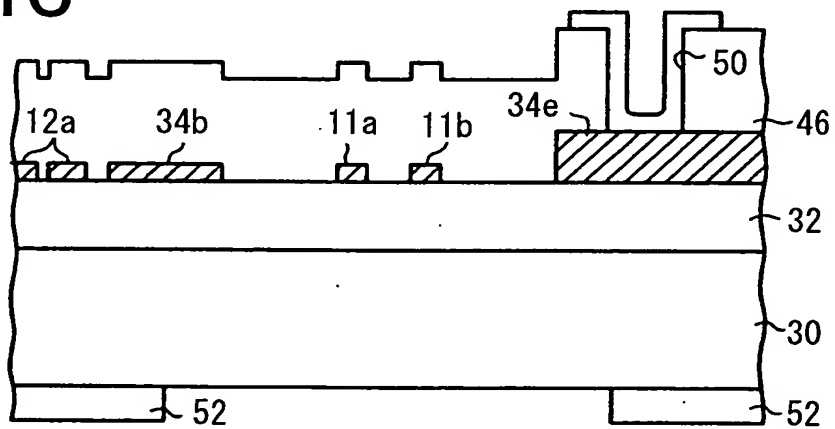
**FIG. 31A**



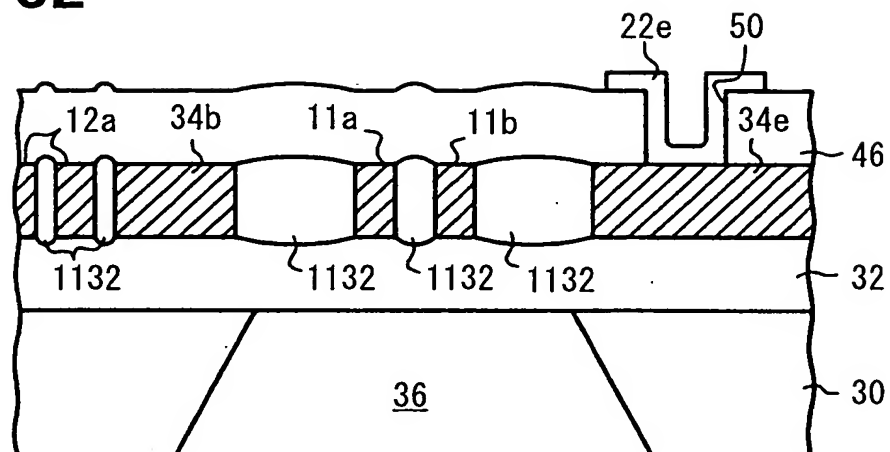
**FIG. 31B**



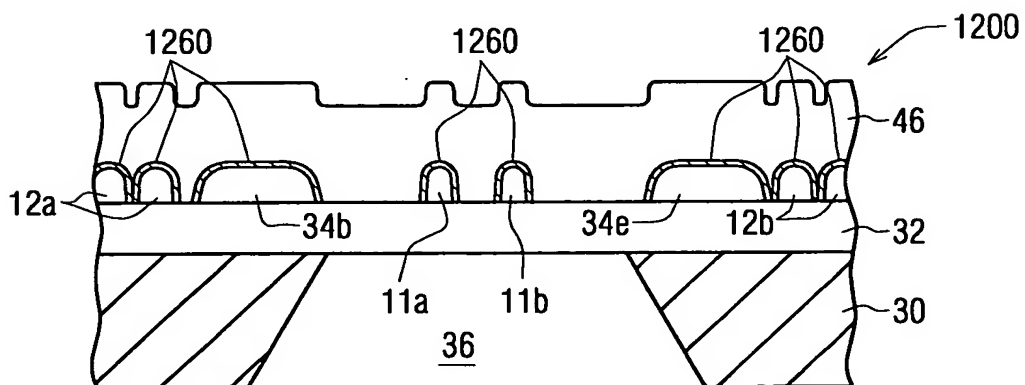
**FIG. 31C**



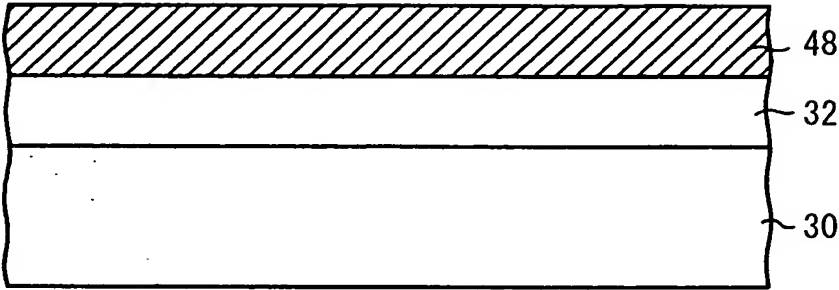
**FIG. 32**



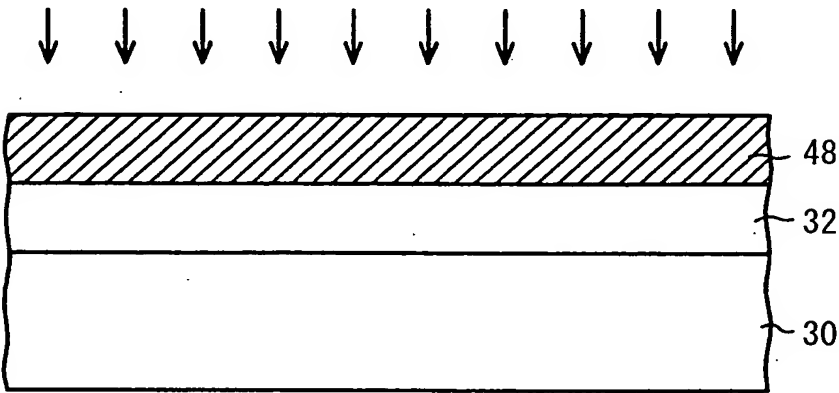
**FIG. 35**



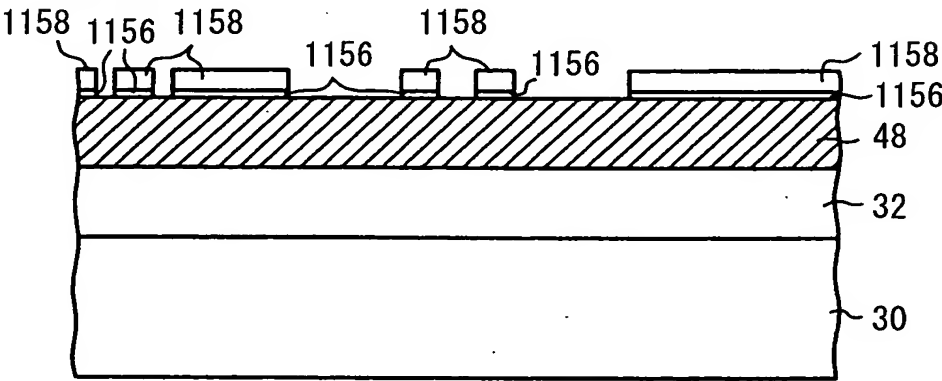
**FIG. 33A**



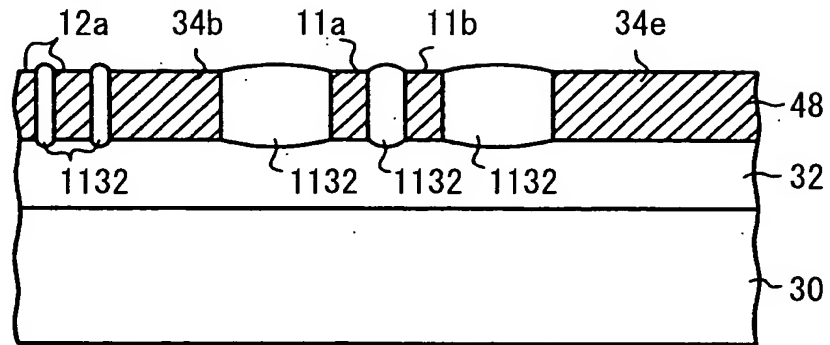
**FIG. 33B**



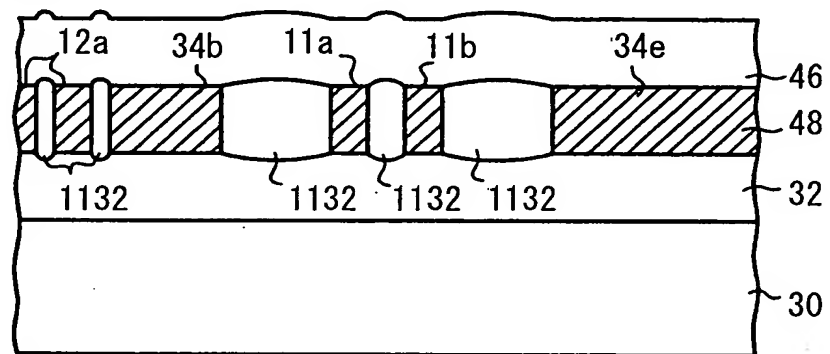
**FIG. 33C**



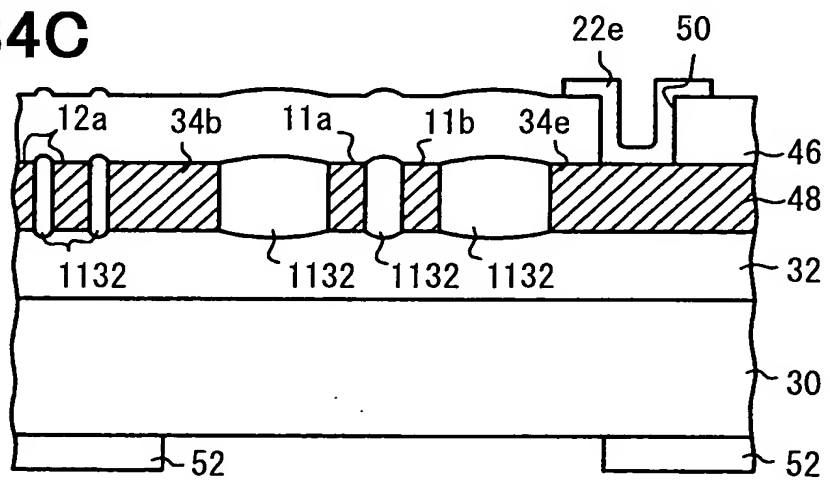
**FIG. 34A**



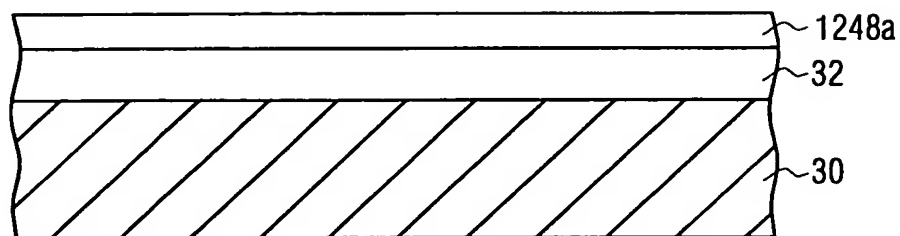
**FIG. 34B**



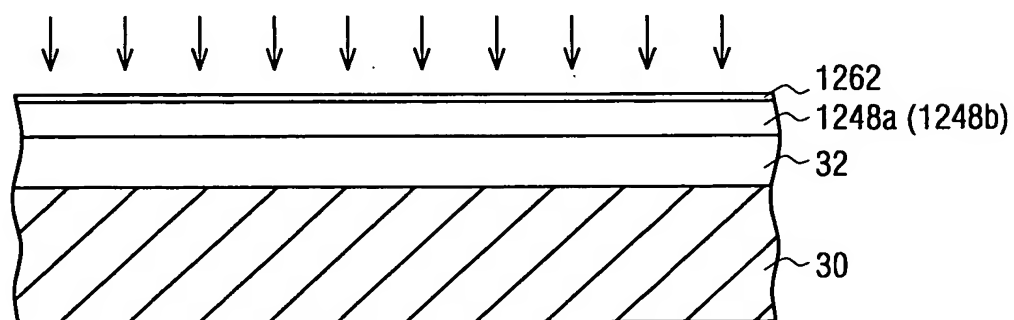
**FIG. 34C**



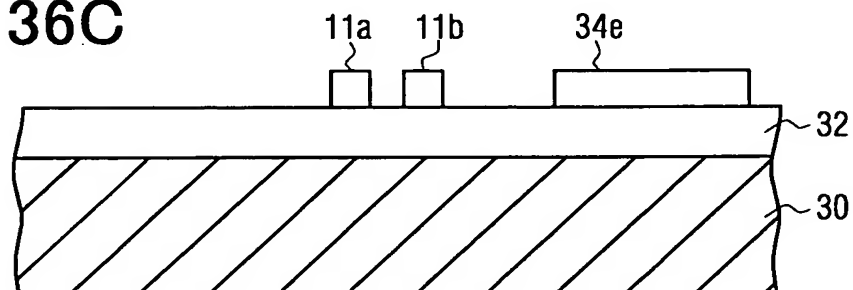
**FIG. 36A**



**FIG. 36B**



**FIG. 36C**



**FIG. 36D**

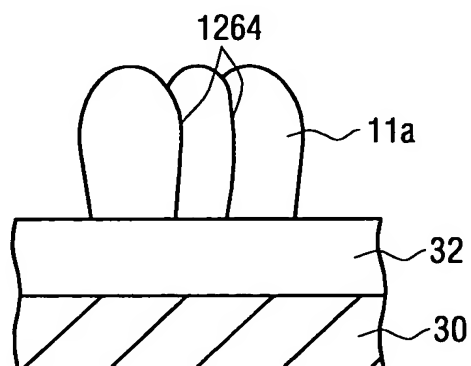


FIG. 37A

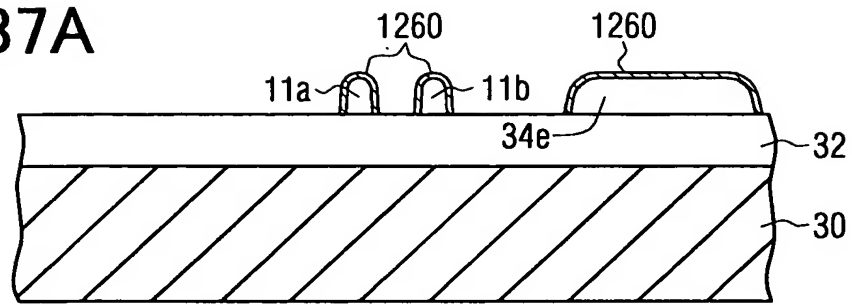


FIG. 37B

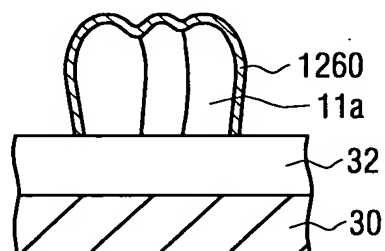


FIG. 37C

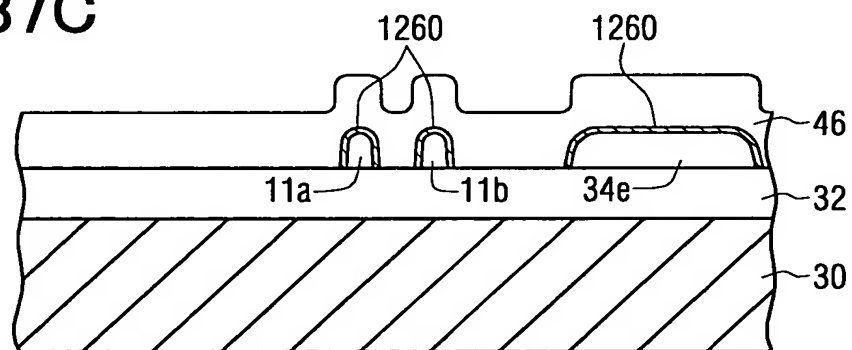


FIG. 37D

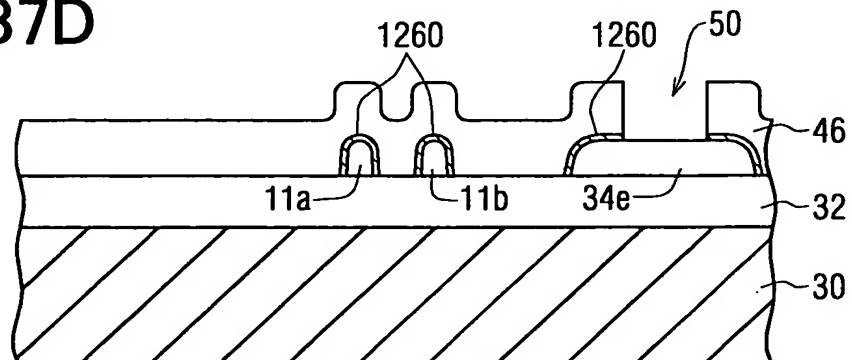


FIG. 38A

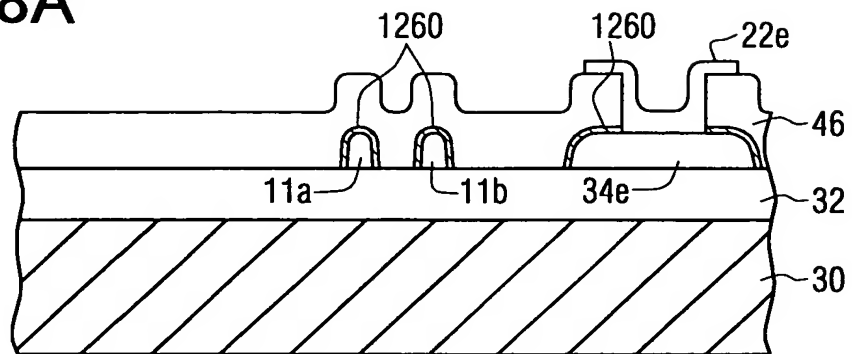


FIG. 38B

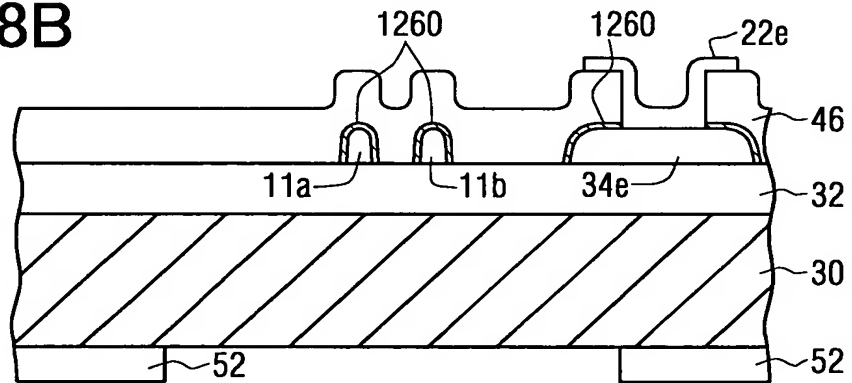


FIG. 38C

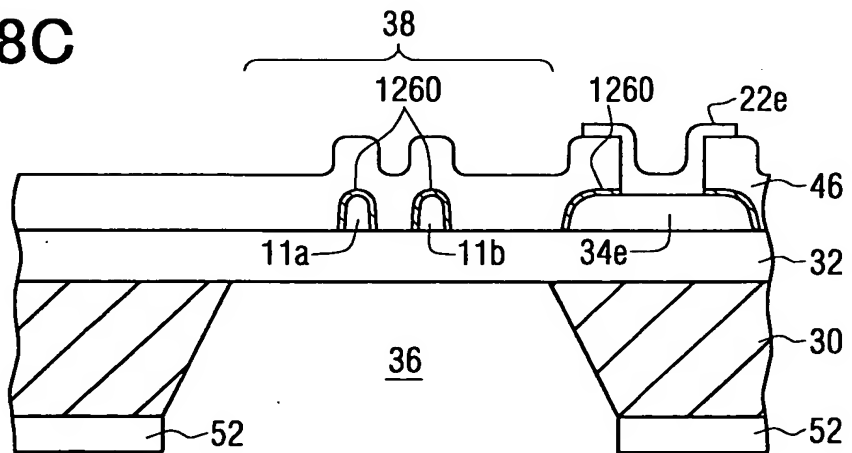




FIG. 39

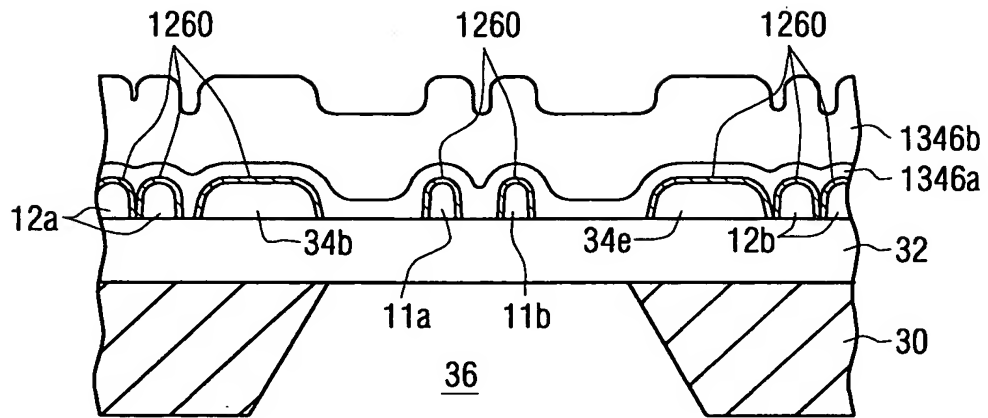


FIG. 40A

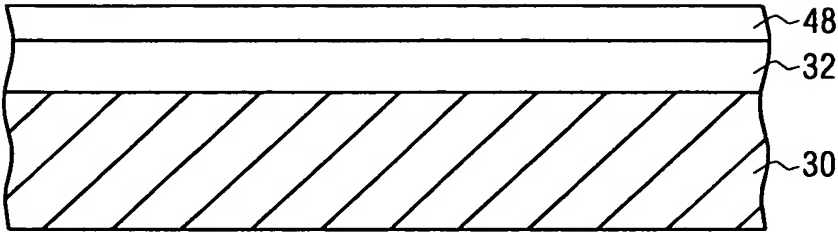


FIG. 40B

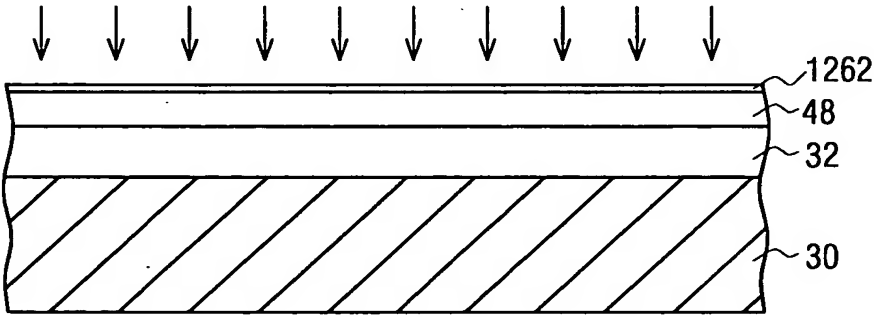


FIG. 40C

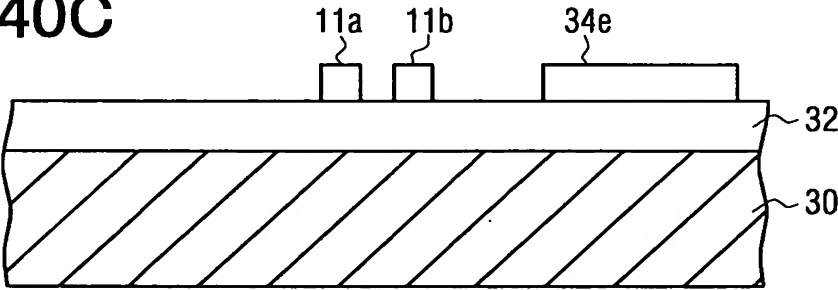


FIG. 40D

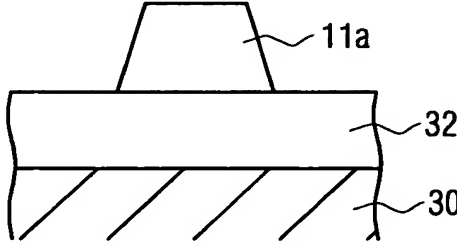


FIG. 41A

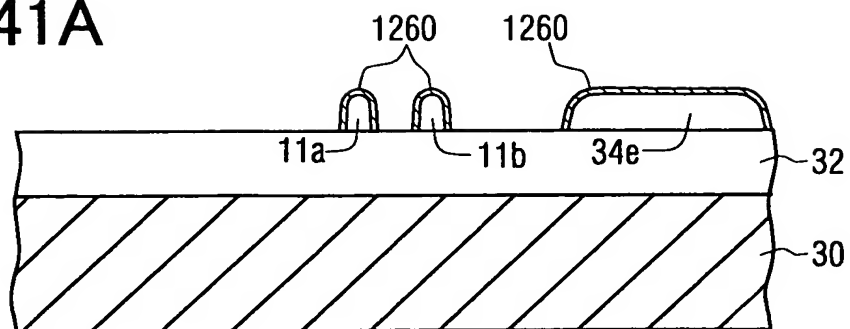


FIG. 41B

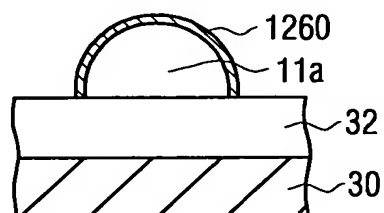


FIG. 41C

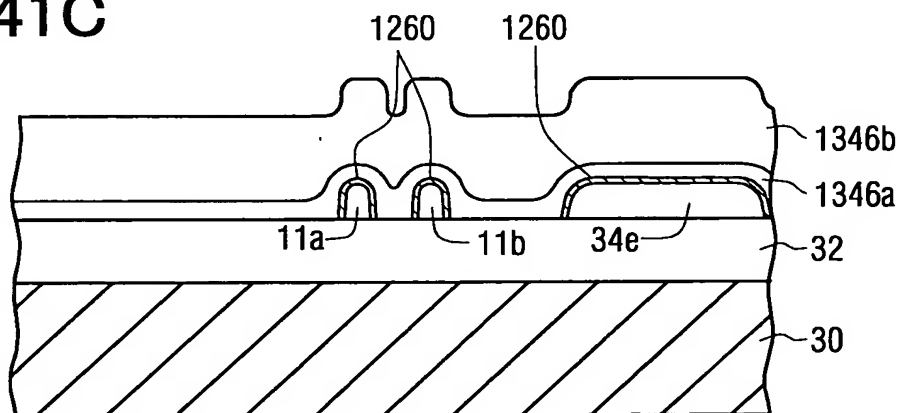


FIG. 41D

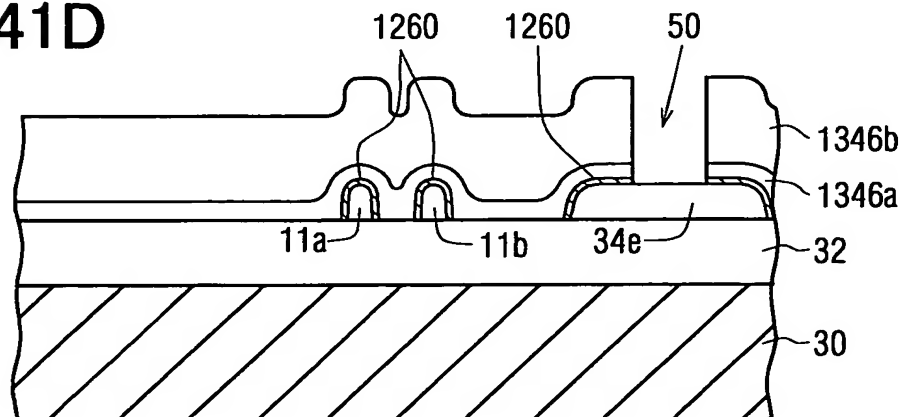


FIG. 42A

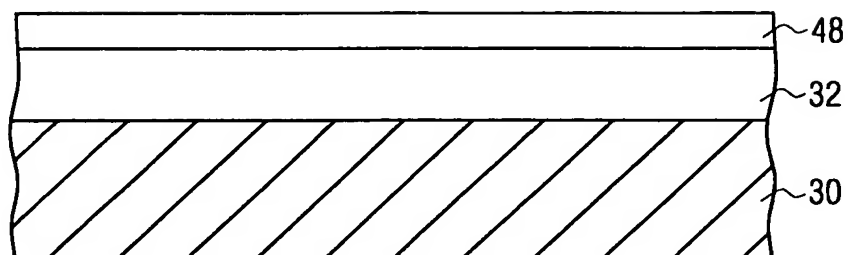


FIG. 42B

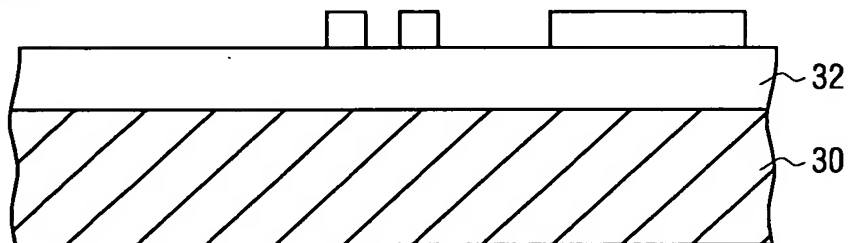


FIG. 42C

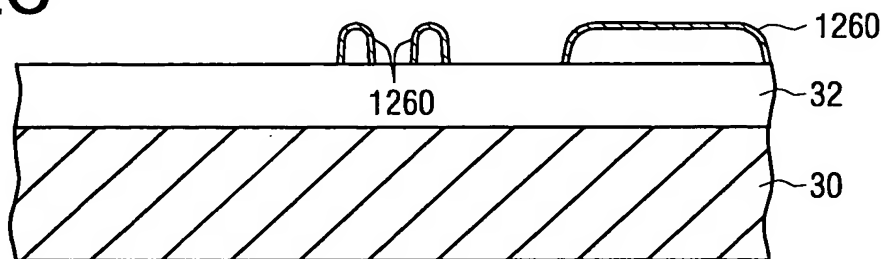
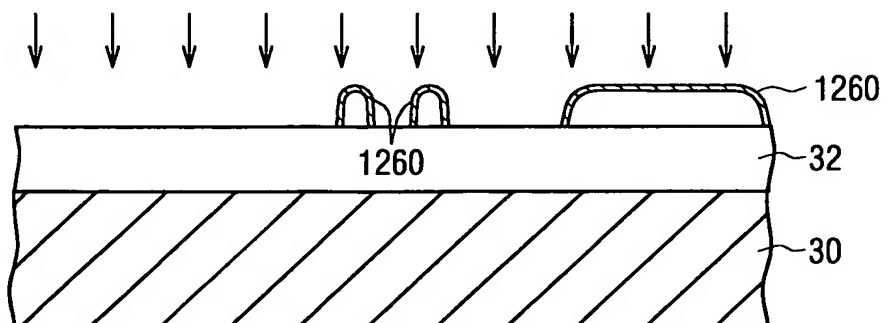
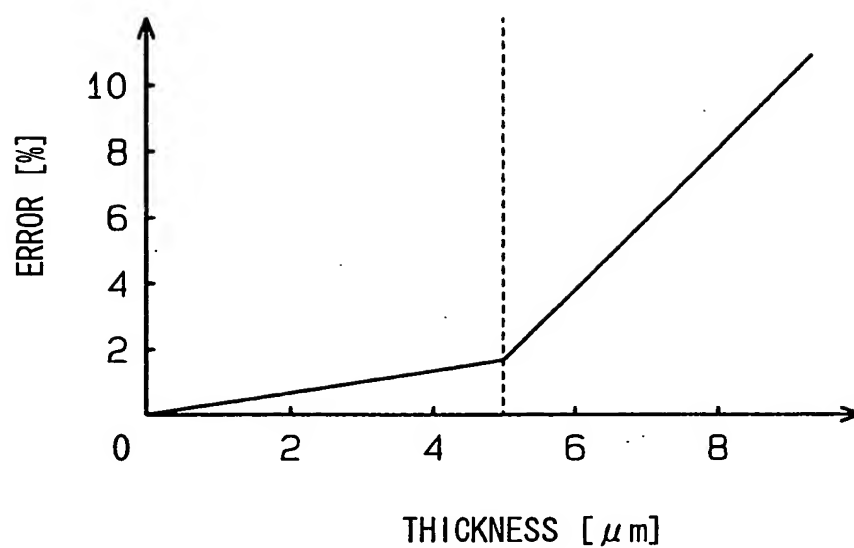


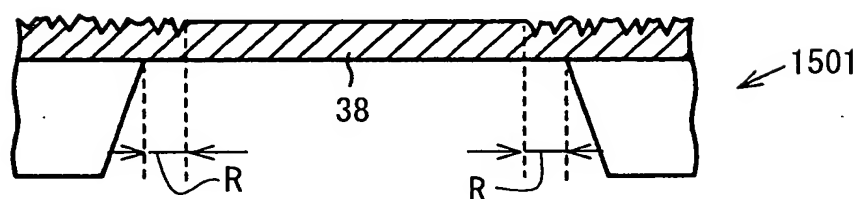
FIG. 42D



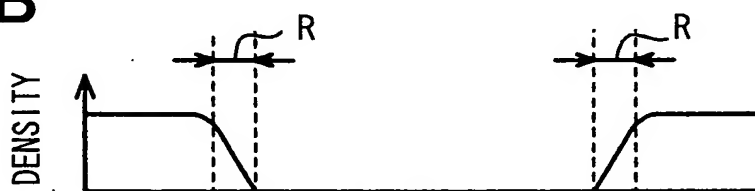
**FIG. 43**



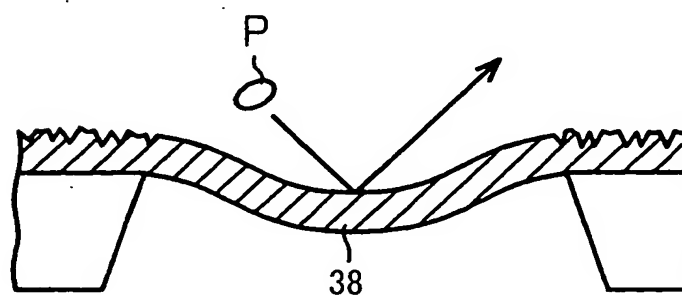
**FIG. 44A**



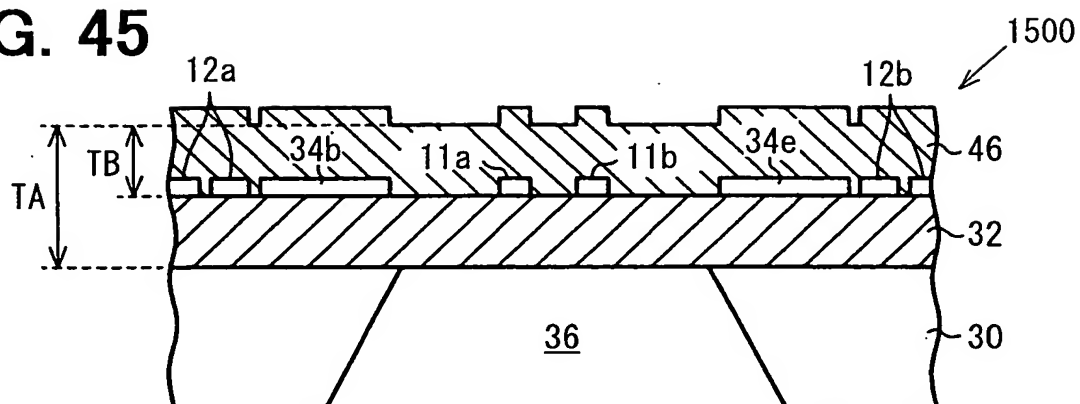
**FIG. 44B**



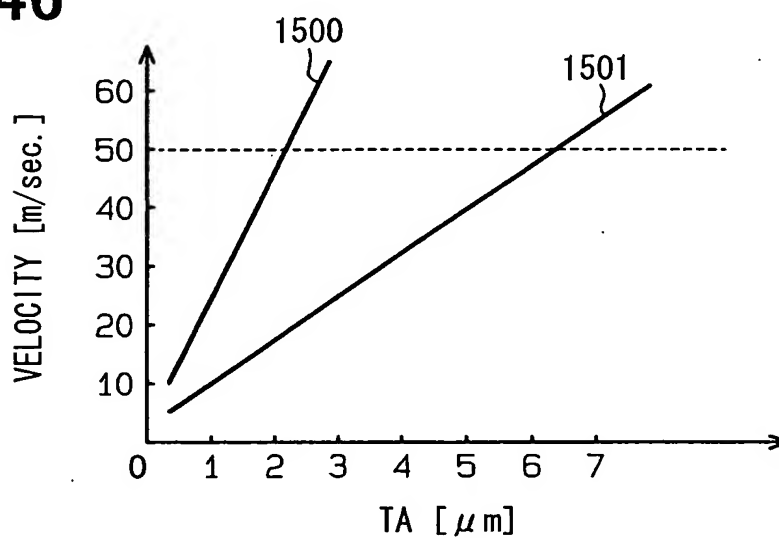
**FIG. 44C**



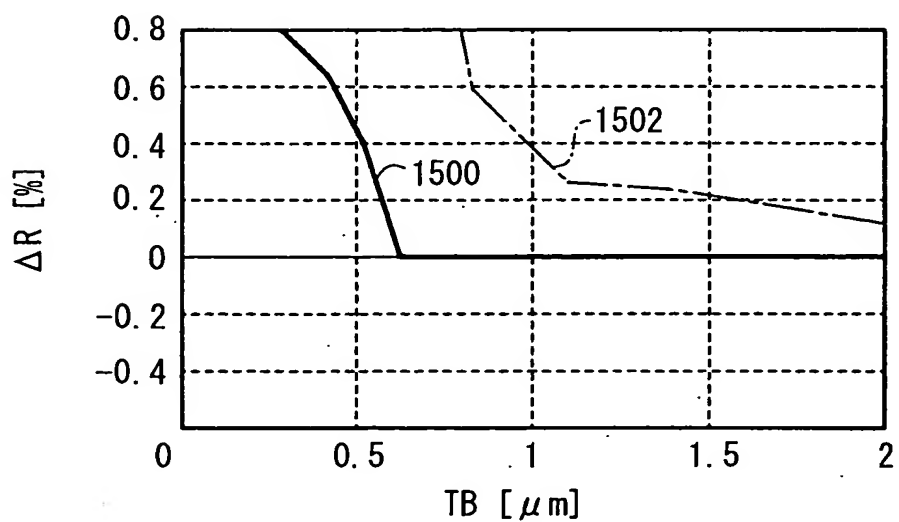
**FIG. 45**



**FIG. 46**



**FIG. 47**



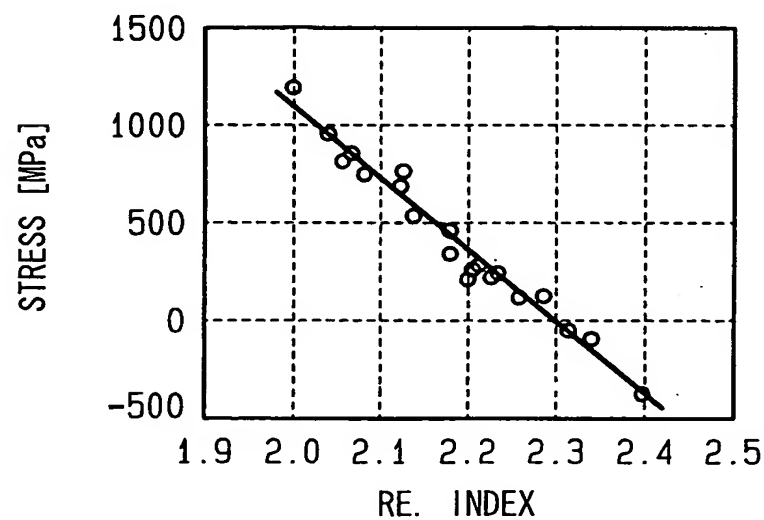
**FIG. 48A**

TEMP. (°C) \ RATIO	1/3	1/1	2/1	4/1	6/1	8/1	10/1
750	×	×	×	○	○	○	×
800	×	×	○	○	○	×	
850	×	○	○	○	×		

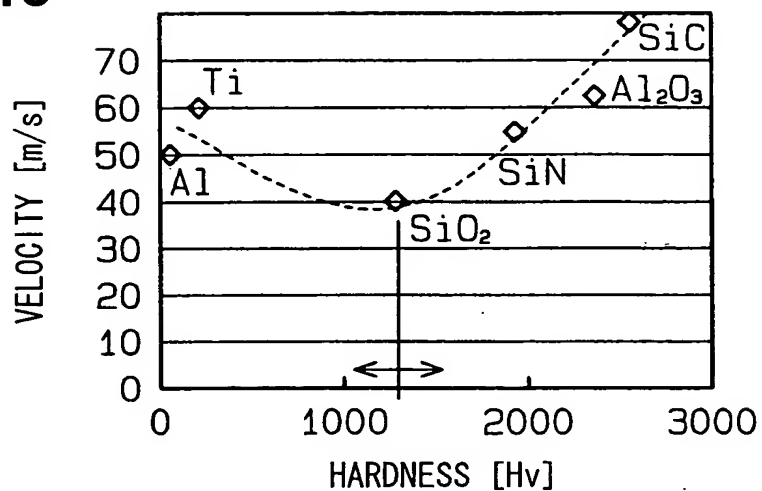
**FIG. 48B**

TEMP. (°C) \ RATIO	1/3	1/1	2/1	4/1	6/1	8/1	10/1
750	2		2.05	2.12	2.19	2.24	2.34
800		2.07	2.1	2.15	2.25	2.37	
850	2.08	2.14	2.2	2.28	2.35		

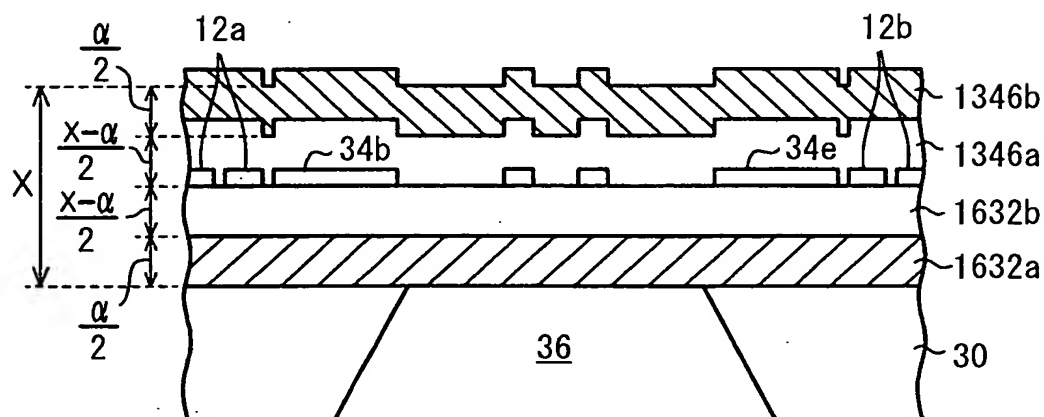
**FIG. 48C**



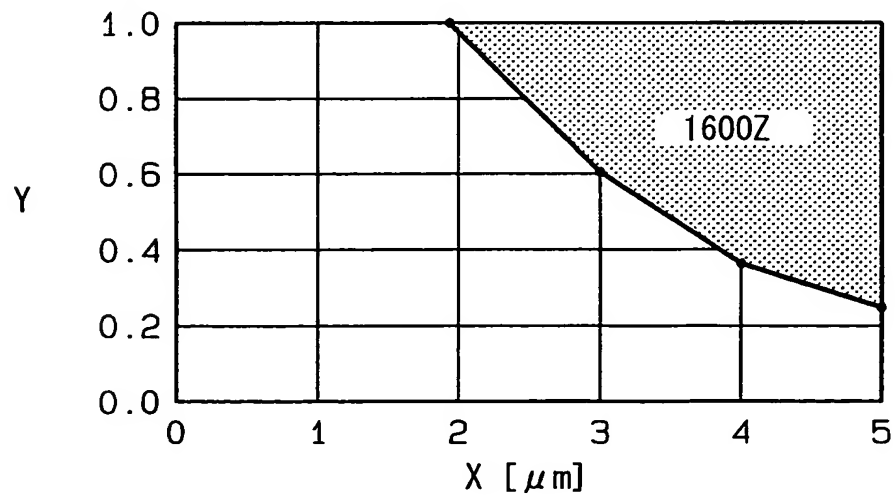
**FIG. 49**



**FIG. 50**

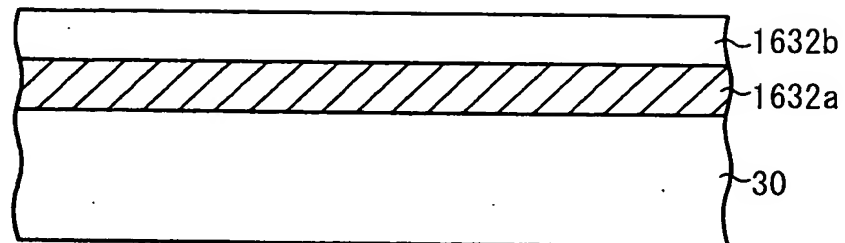


**FIG. 51**

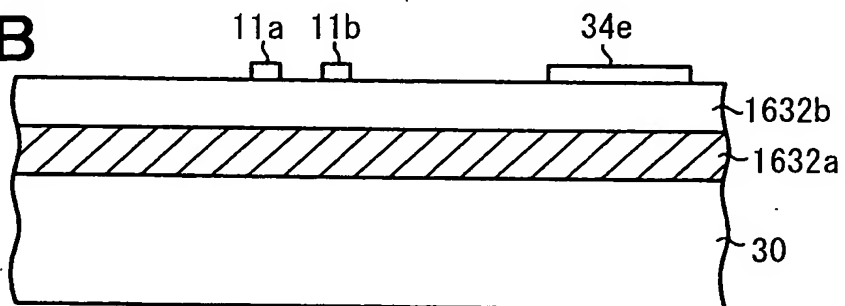




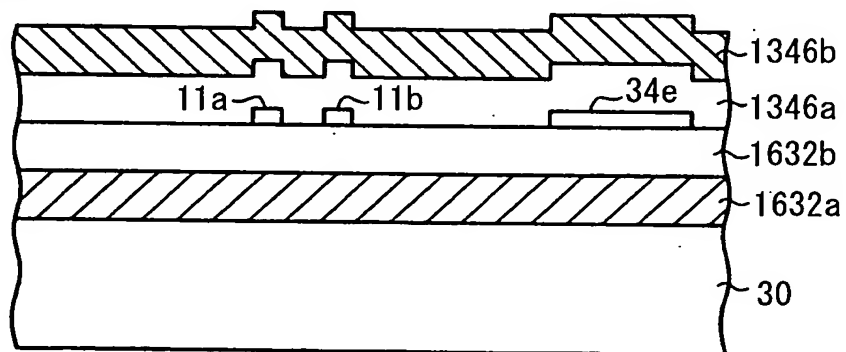
**FIG. 52A**



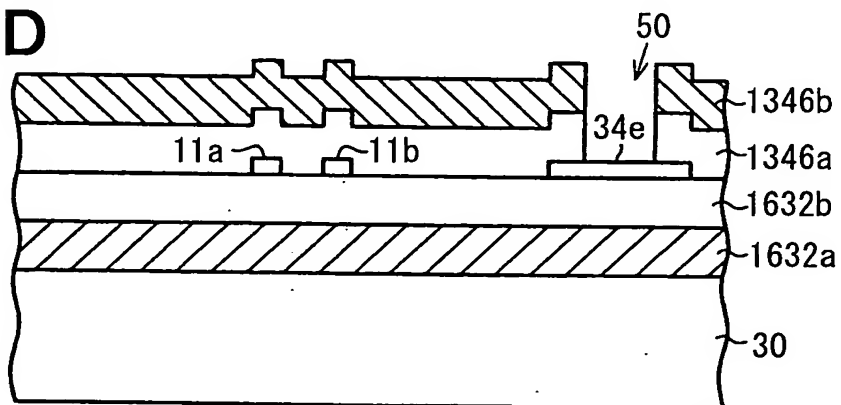
**FIG. 52B**



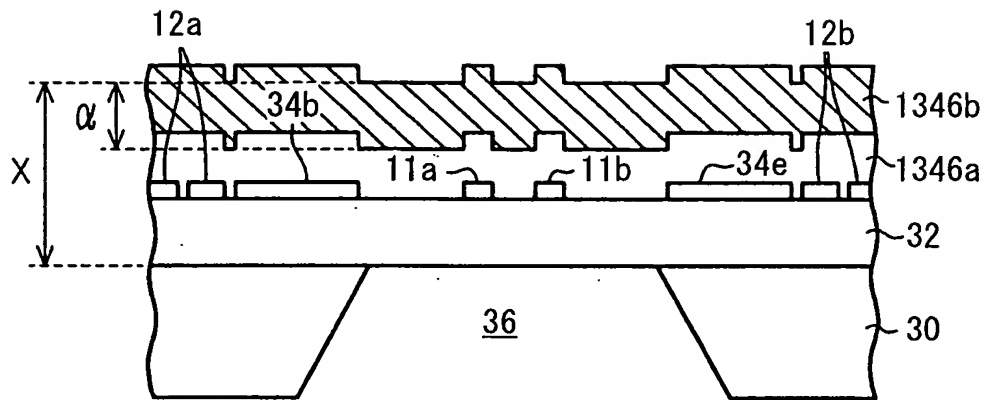
**FIG. 52C**



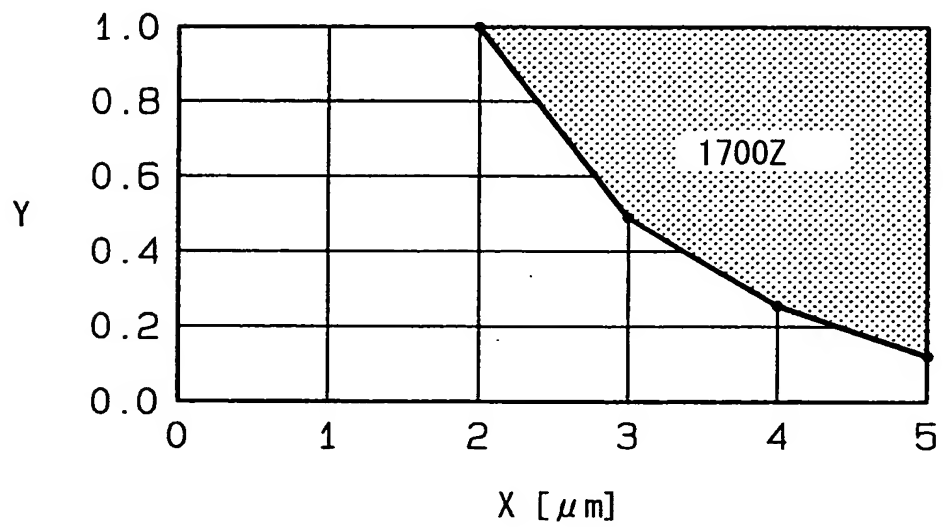
**FIG. 52D**



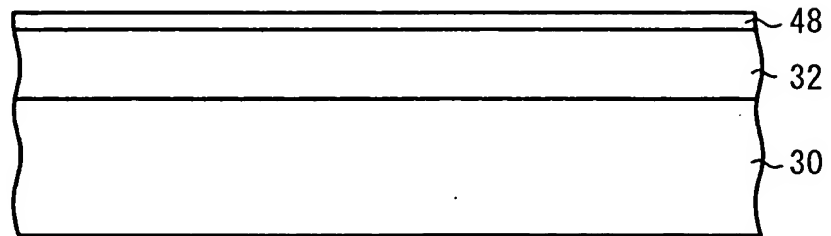
**FIG. 53**



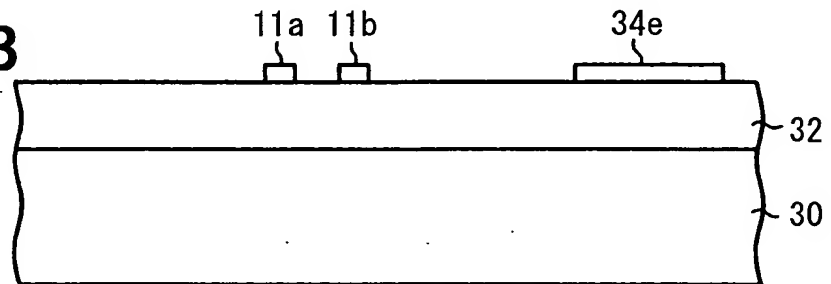
**FIG. 54**



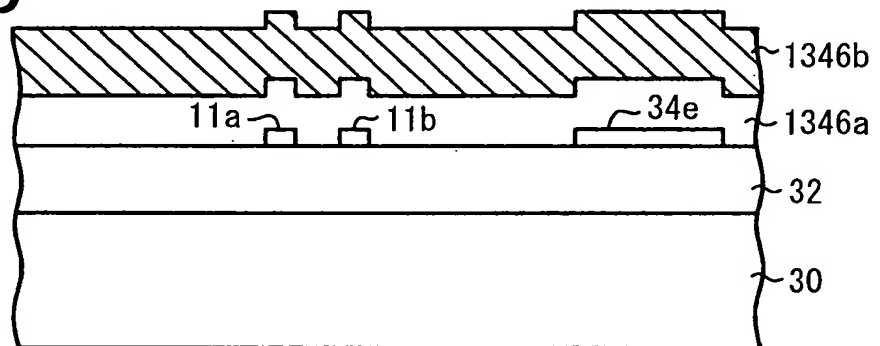
**FIG. 55A**



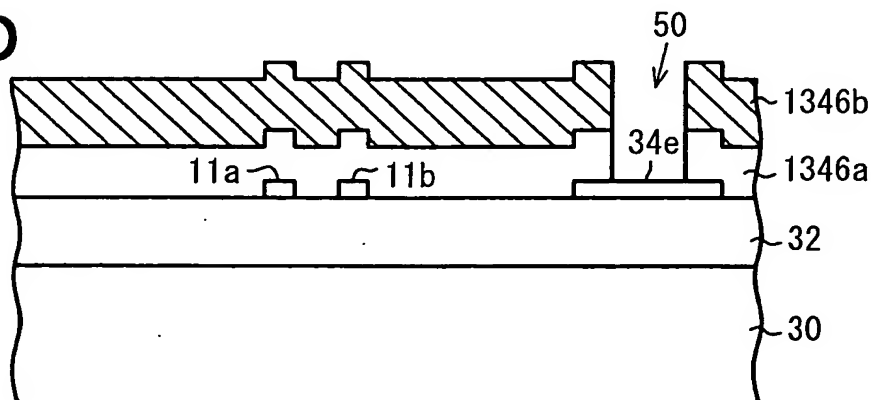
**FIG. 55B**



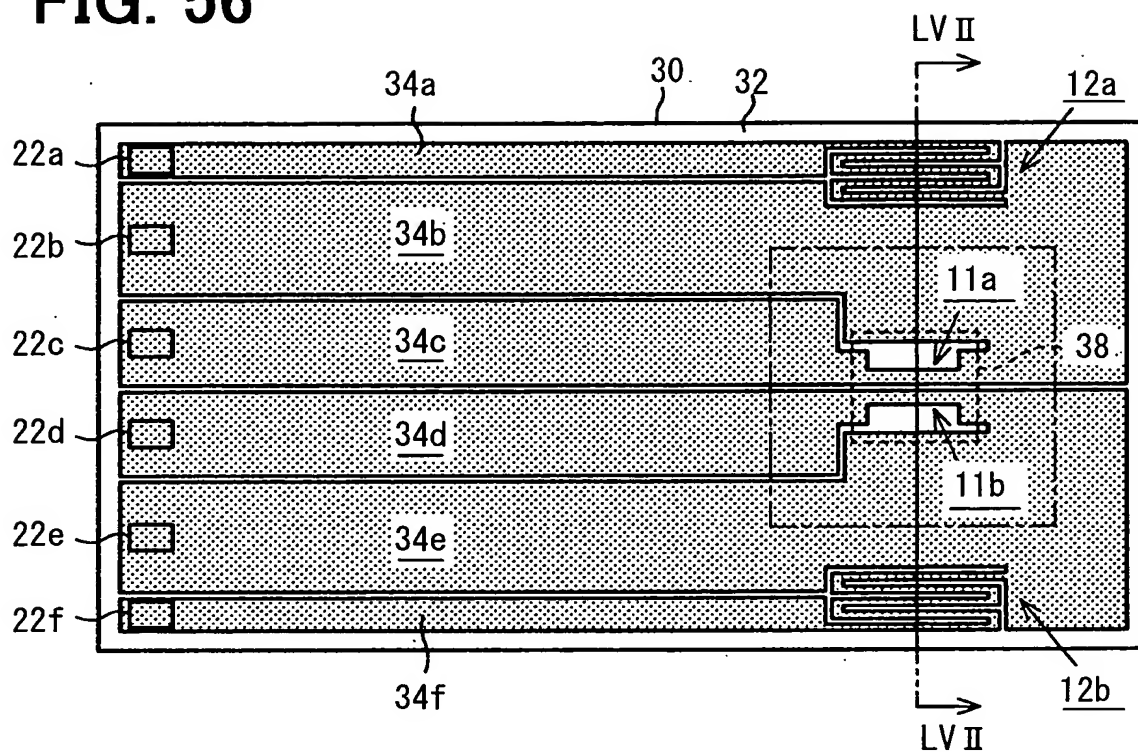
**FIG. 55C**



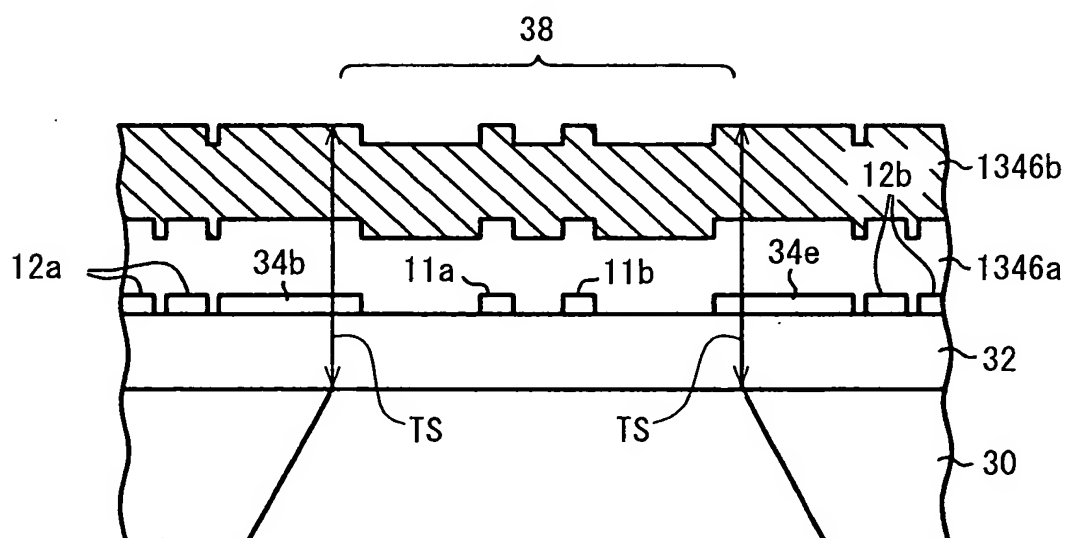
**FIG. 55D**



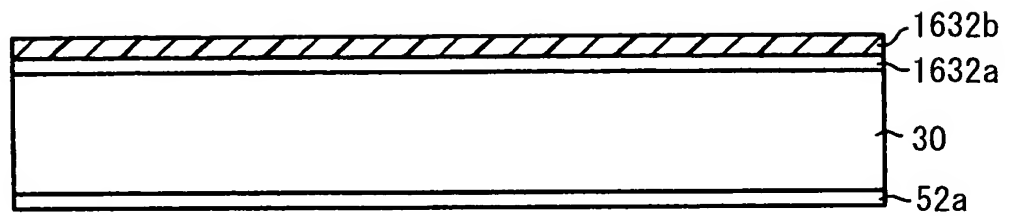
**FIG. 56**



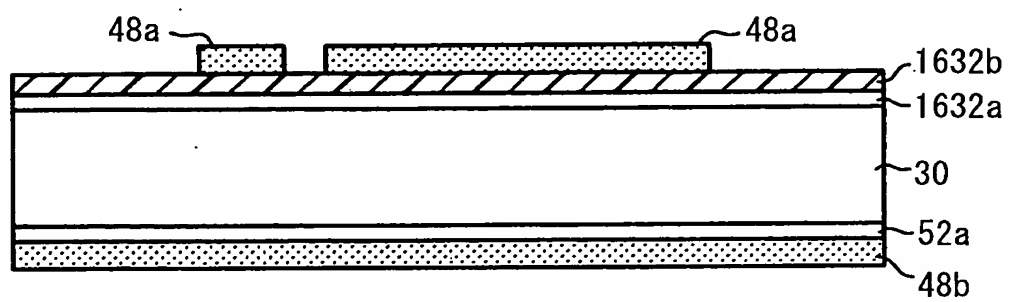
**FIG. 57**



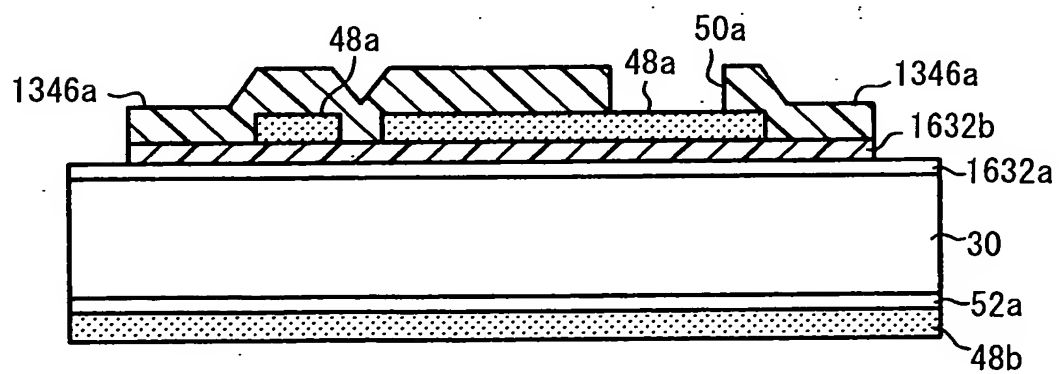
**FIG. 58A**



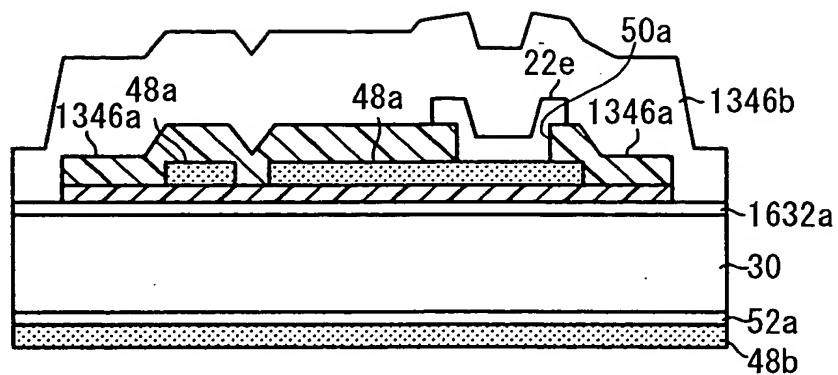
**FIG. 58B**



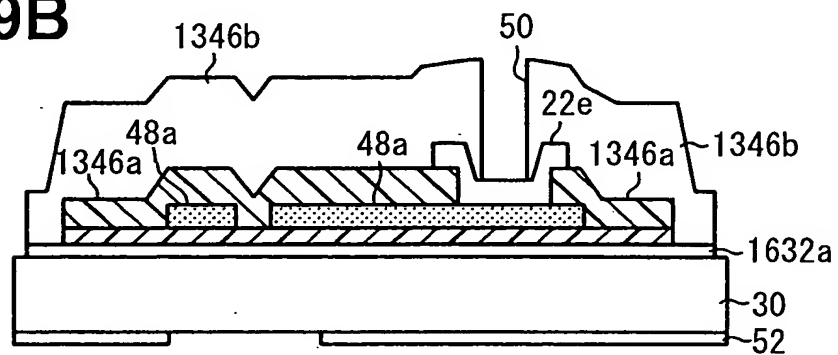
**FIG. 58C**



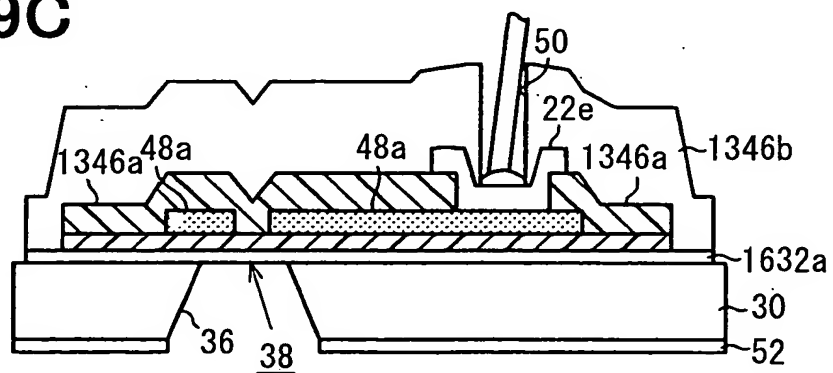
**FIG. 59A**



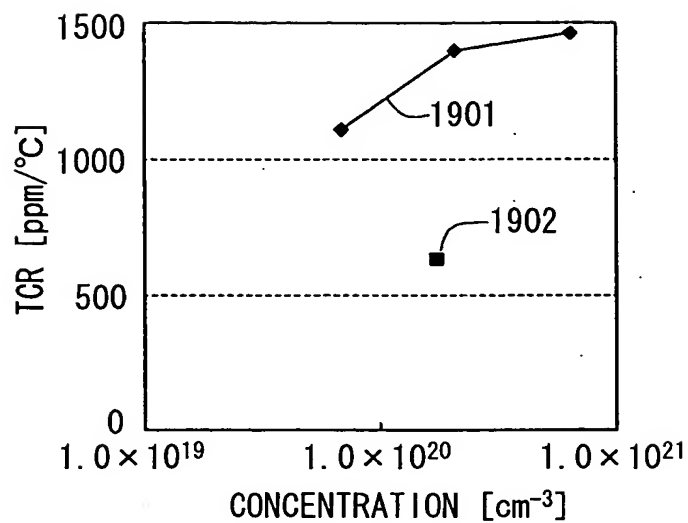
**FIG. 59B**



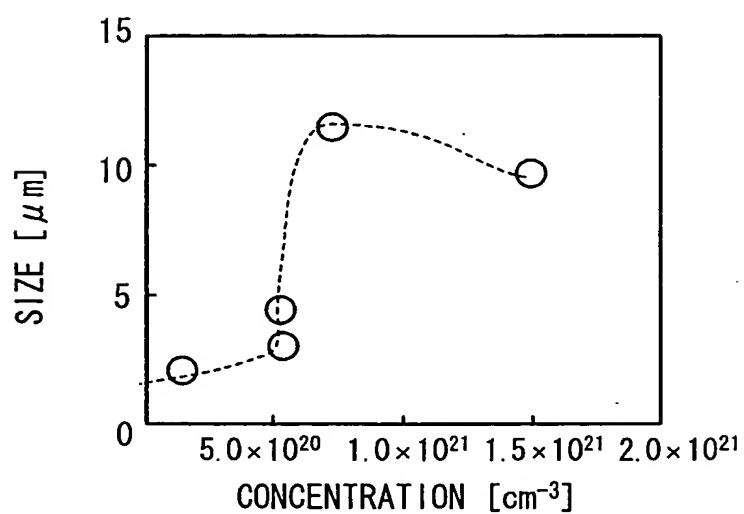
**FIG. 59C**



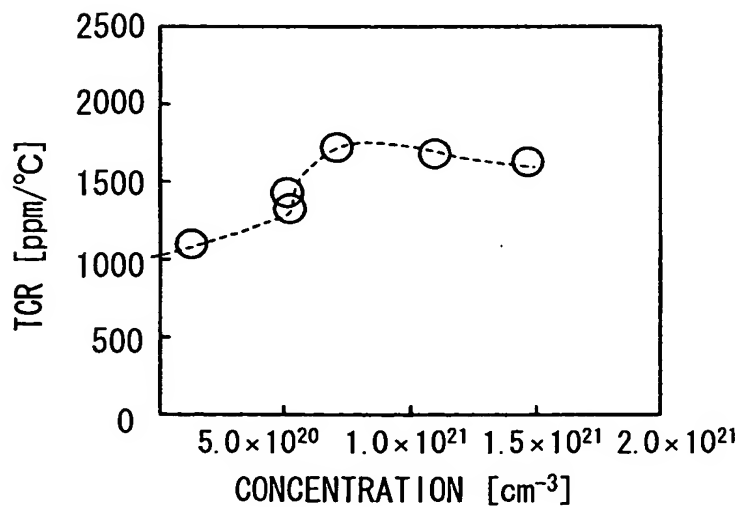
**FIG. 60**



**FIG. 61**



**FIG. 62**



**FIG. 63**  
**PRIOR ART**

